



Business Overview

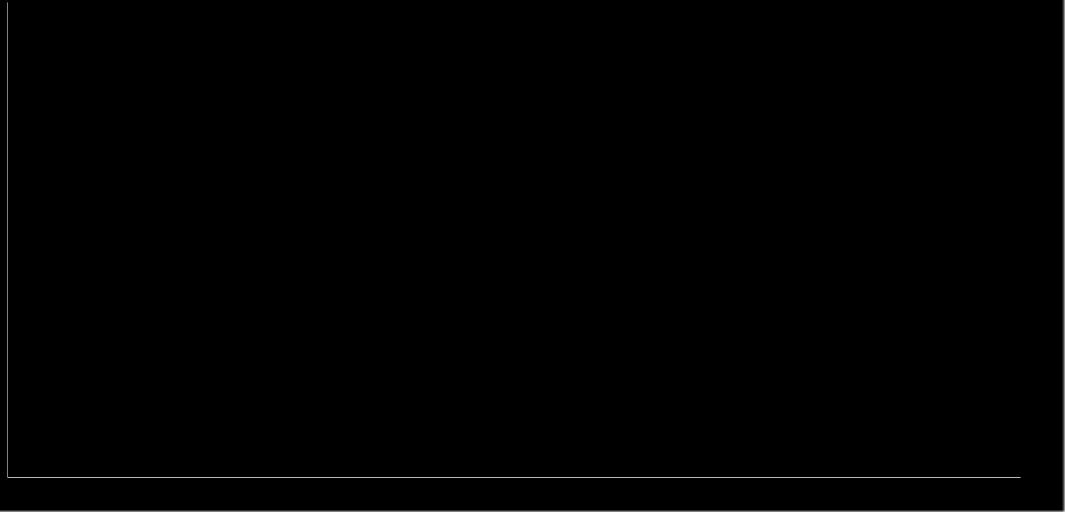
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Transacting Accounts

Paying Accounts


*Q3 '17 10Y growth normalized for extra week

Paying Accounts By Region FYQ3 '17

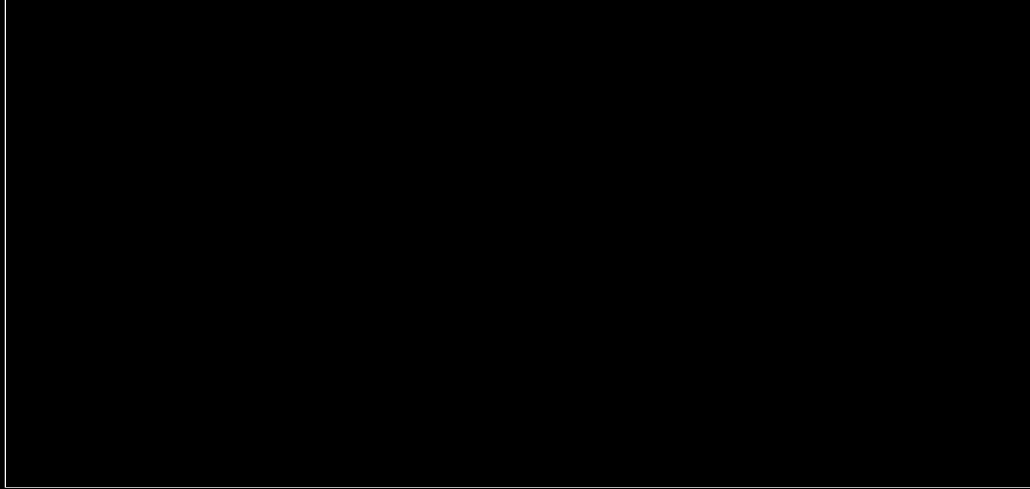


New to Paying Accounts

Paying Accounts



Paying Accounts By Region FYQ3 '17

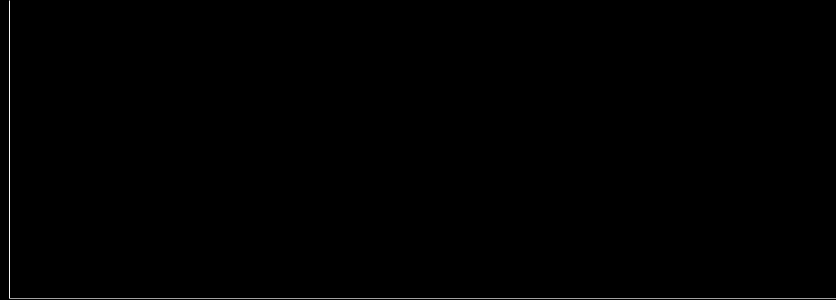


Billings

Billings By Region FYQ3 '17

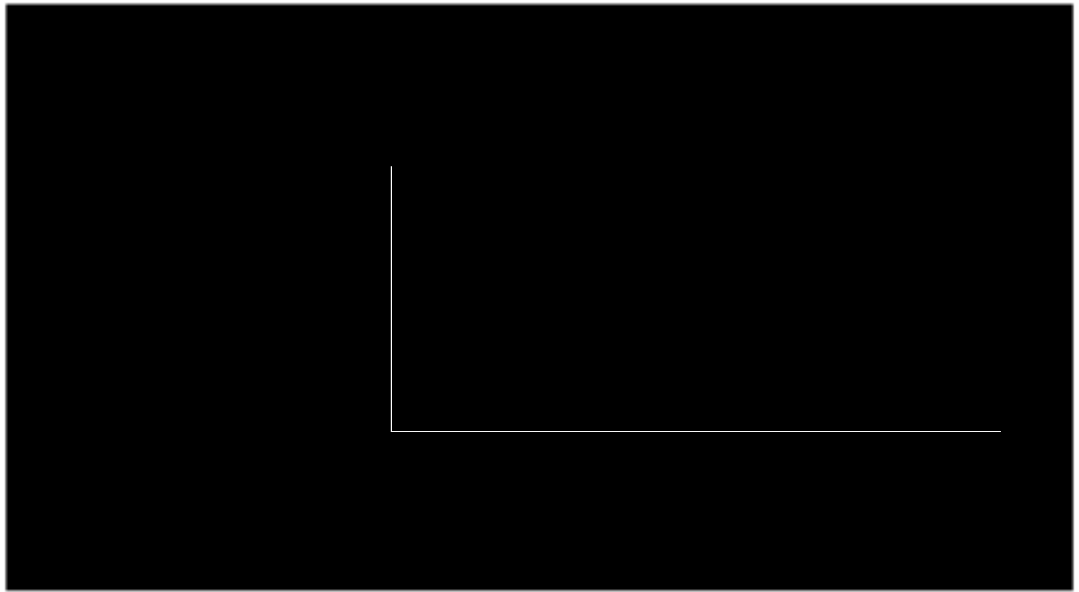


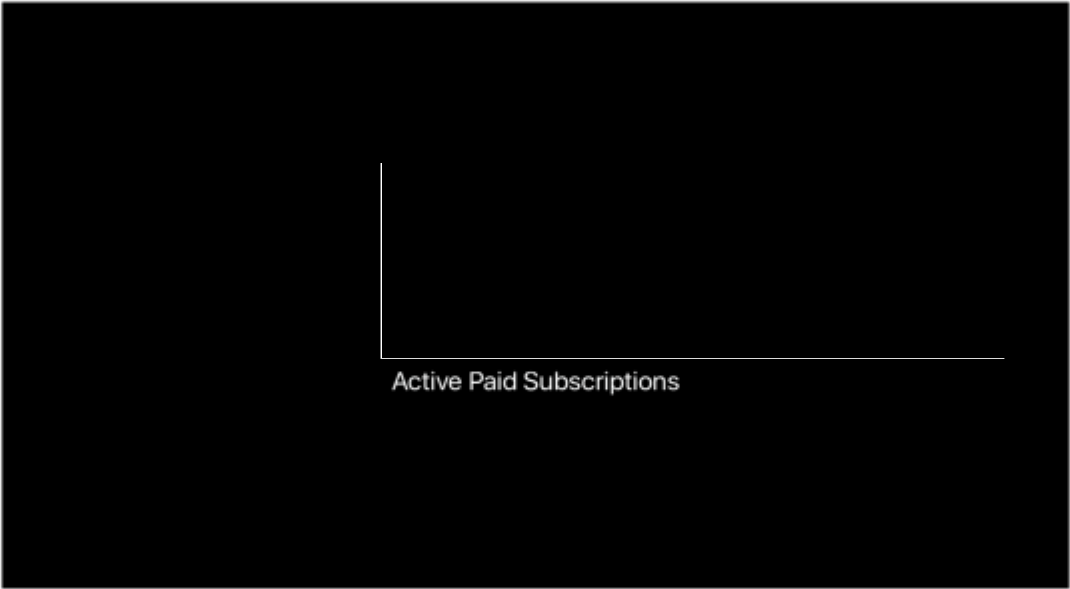
Billings Fast Movers FYQ3 '17



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Subscriptions Billings





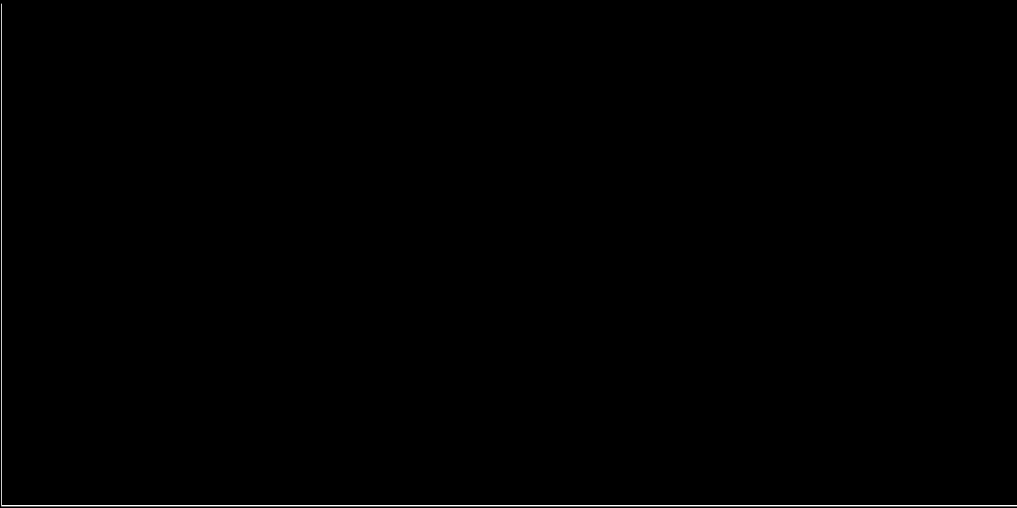
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China Subscriptions Trend



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China Subscriptions Trend



Subscription ASP Trend



- Data updated to 10 July

Top Grossing Apps Past 4 Quarters

Monster Strike



King of Glory



Pokémon GO



Onmyoji



Fantasy Westward



Clash Royale



Puzzle & Dragons



Fate/Grand Order



Game of War



Candy Crush



TODO: which direction are these apps heading in.

Top Downloaded Apps Past 4 Quarters

Pokémon GO



YouTube



Messenger



Instagram



Facebook



Bitmoji



Super Mario Run



WhatsApp



Google Maps



Snapchat



FY'18 Focus Areas

Discovery

Growth

Developers

FY'18 Focus Areas

Discovery

Growth

Developers

[MATT F.]

-First major focus next year is discovery

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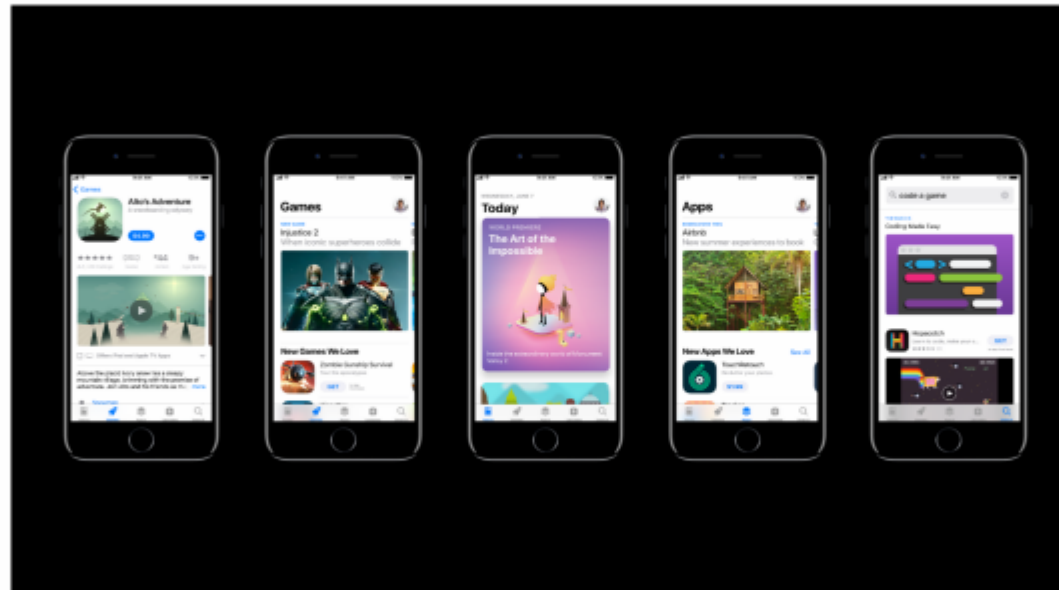
Discovery

All-New App Store

Personalization

Editorial Content in More Places

App Nutrition Labeling



Top priority for the rest of the year is the All-New App Store...

- Aggressively hiring against recently approved headcount
- Great momentum towards launch, feedback has been terrific
- Will closely monitoring impact on engagement and conversion

All-New App Store

Very positive response from developers so far

Key hires from WSJ, BuzzFeed, Sunday Times (UK), The Verge

Daily Today stories begin on 8/24 in US, 9/4 in International

Scaling a new store:

More developer collaboration and coordination required by Business Managers

More local marketing support needed in Tier 1 (China, Japan, UK, Korea, Taiwan)

-We've learned a lot

-Higher touch required by Business Management to ensure higher quality story ideas for Today, Games & Apps

-Need more local marketing support for Tier 1 countries internationally

[Handoff to Jeff]

App Store Redesign

Editorial context on Today cards

Editorial copy for collections

Text formatting options in Stories

Text sub-header module

Swoosh of Stories

Editor's Choice Date

Editor Genre Attribution

Ambient Background Video

Story preview (Tools)



Personalization

Deliver relevant editorial content on Today, Games, Apps and in Search

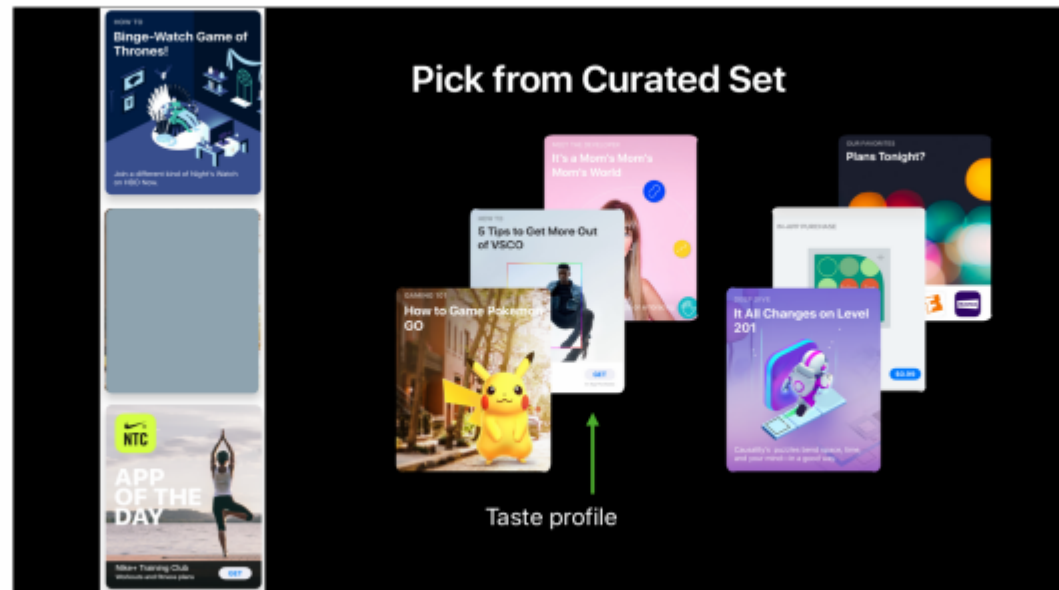
Editors tag apps and in-app purchases with qualitative metadata

Integrate behavioral signals with editorially curated data

[JEFF R.]

-Today the store is one-size-fits-all, major focus for next year is personalizing the store to deliver more relevant *editorial* content to each customer throughout the store

Targeting
Reordering
Showing or hiding

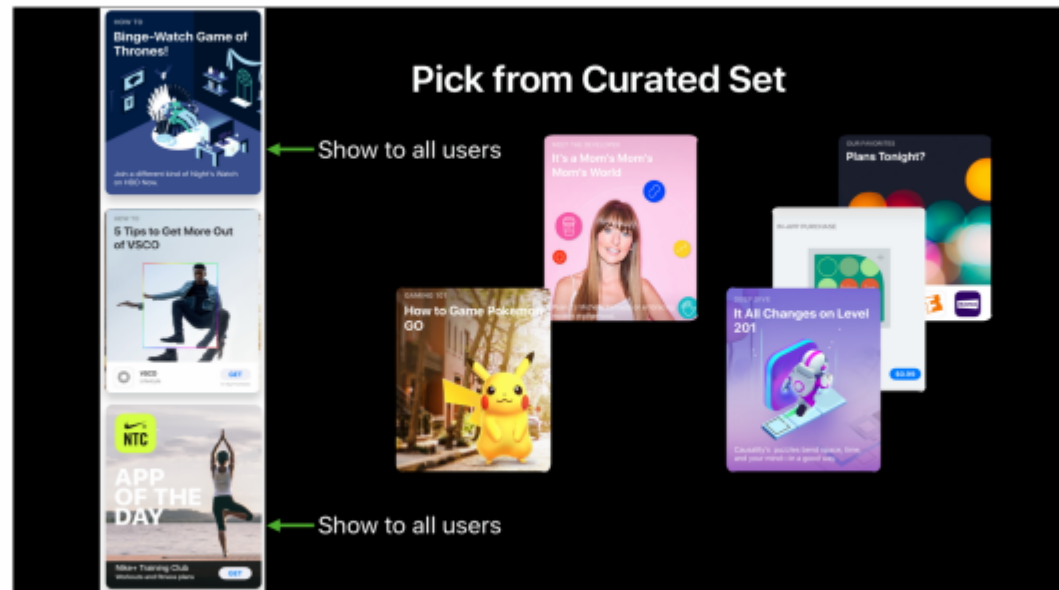


- Personalization can mean different things to different people. Our approach is to:
 - Retain our editorial voice by picking from a curated set of recommendable apps that have been evaluated by editors.
 - Target users with relevant content in certain areas of the store
 - Reorder content to show most relevant content most prominently
 - Showing/hiding content based on relevancy

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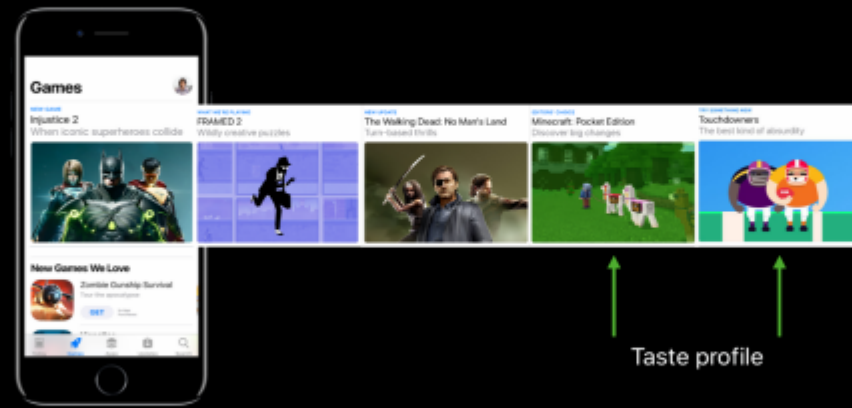
- Our algorithm would pick relevant content from this curated set based on user's taste profile.
- If the taste profile includes "Photography"...

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- We can pick an editorial story about photography over other stories to show the user.
- The other two cards could be shown to all users.

Reordering



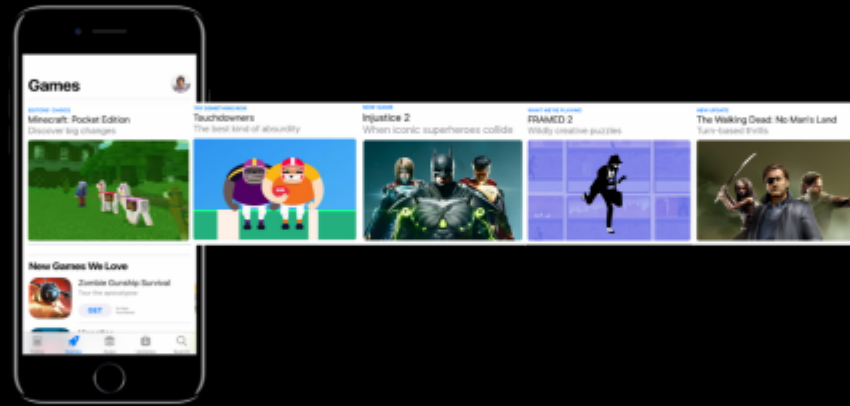
- Another type of personalization: reordering and sorting
- Example: Games tab, row of hero games at the top, all have been programmed by Editorial.

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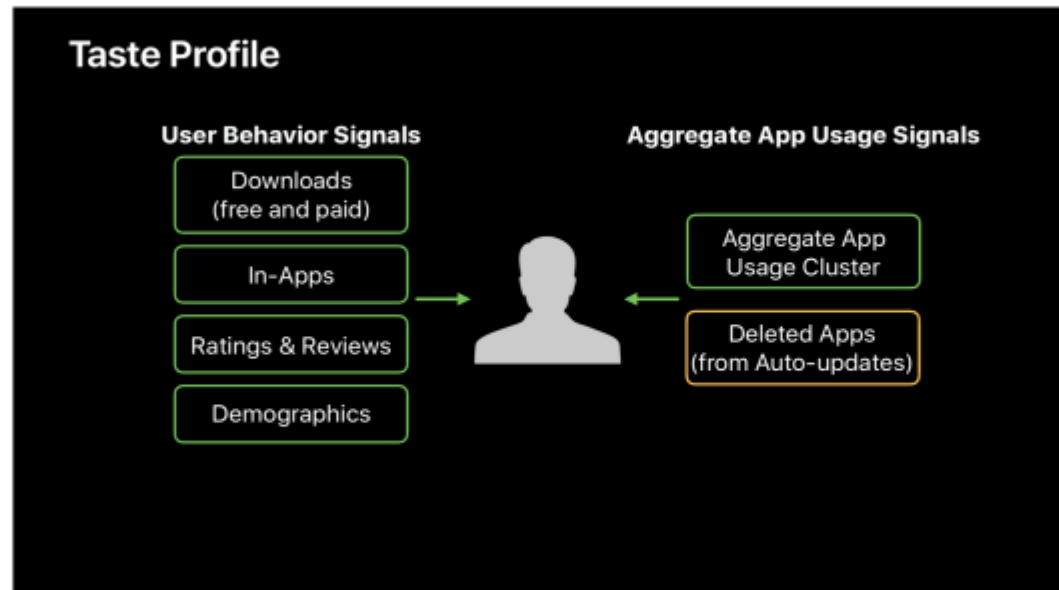
- Customer's taste profiles signals they have Minecraft, and like sports and physics games
- We know know first slots in the row are most impactful

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Reordering



- Reorder the heroes so most relevant content to user shows most prominently
- Will apply same techniques throughout the entire store - all tabs and search



How does this work?

-Need to understand the user, understand the catalog.

User Taste Profile:

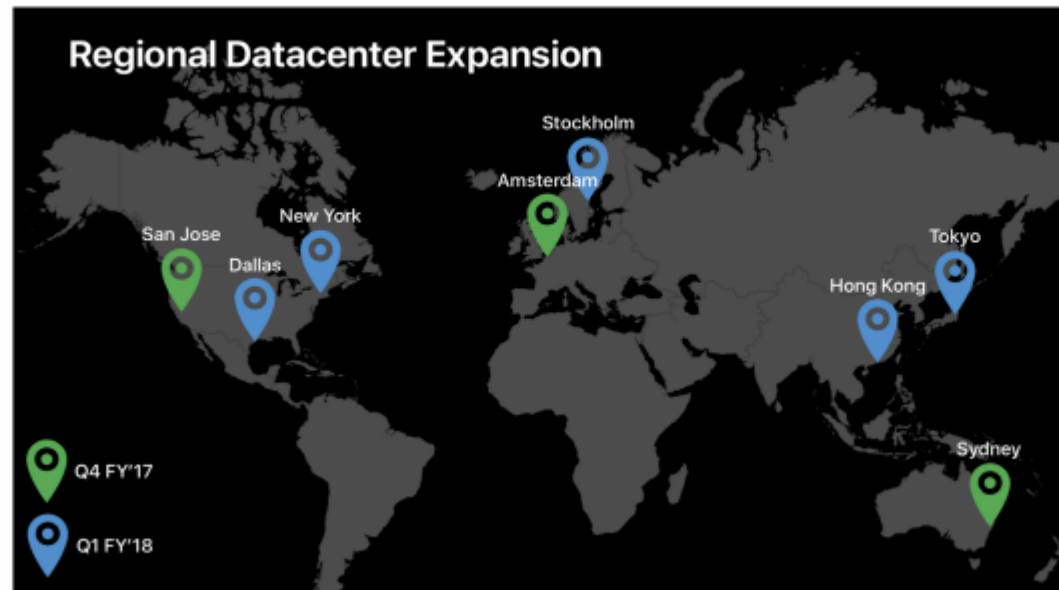
-Behavioral signals: downloads, IAPs, Ratings & Reviews, Demographics.

Aggregate App Usage Signals

- Since we don't use all of the usage data, what we're going to do is use aggregate data, focus on not using individual usage data
- For the people who have opted-in to aggregate targeted app usage clusters, that's individual usage. We don't need to use that to start
- Leverage aggregate app usage cluster info and data on deleted apps that weren't useful to users
- Ongoing Privacy Discussions on App Usage clusters

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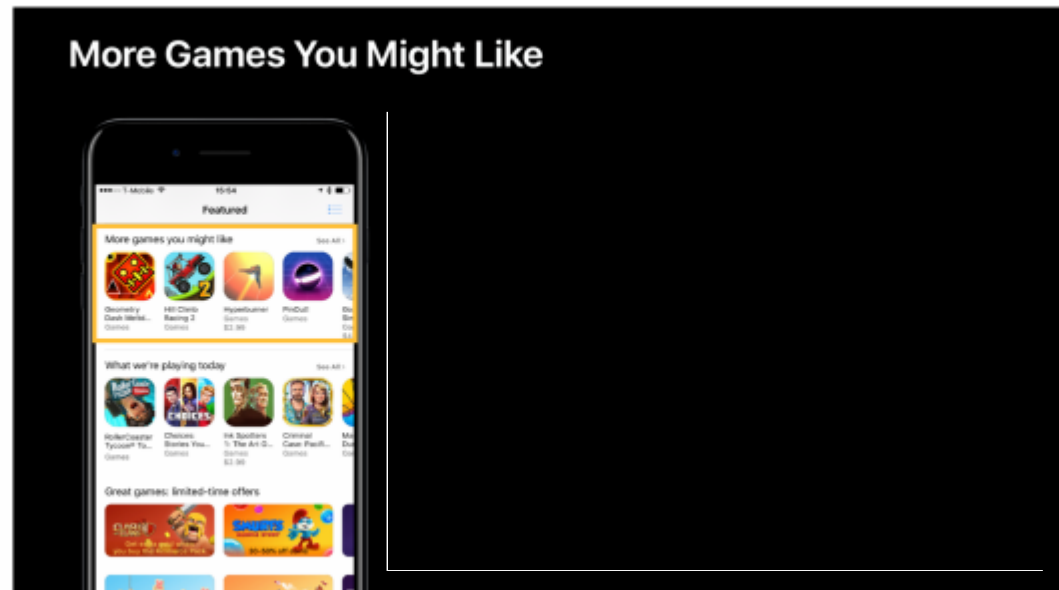
-Infrastructure investments in datacenters to power personalization

-Learned some lessons on potential impact from some personalization we've done on the storefront with More Games You Might Like...[handoff to AYMAN]

Requirements

Investment in editorial, tagging and reporting toolsets

Privacy sign off for necessary data collection



- More Games You Might Like is the only personalized swoosh on the current App Store
- Results are positive - we see twice the click-to-download conversion rate vs other swooshes on Apps Main
- While this bodes well for further personalization, it's unclear of the full potential upside of doing this for both apps and games across the entire store.
- That being said, we're going to give games personalization a higher downloads lift (vs. apps) given we've had more experience in this area.

Featured Content, iPhone

Impact Model Methodology & Assumptions

Observe values for Featured Games & Apps in current App Store

Consider *More Games You Might Like* impact on conversion

Featured Games & Apps downloads increase

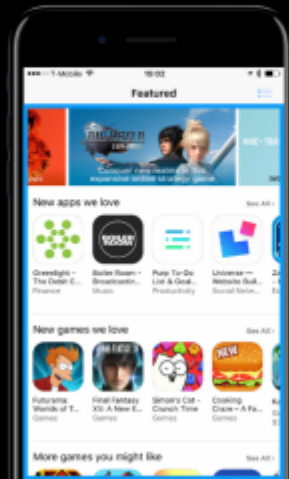
Featured Games LTV increase

Compute annualized incremental billings

Here is the methodology we used.

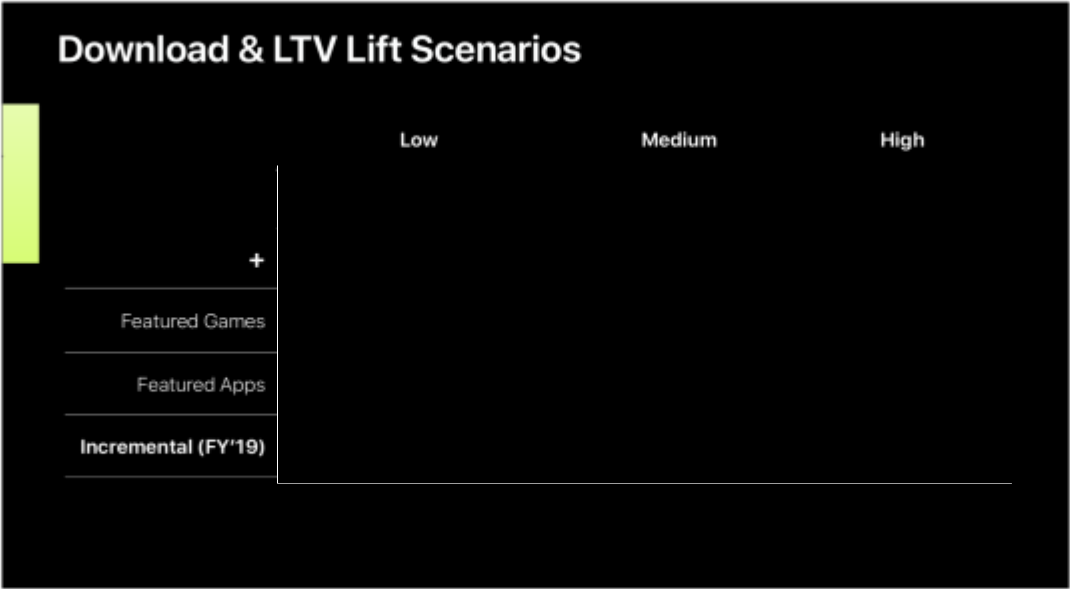
- We looked at the metrics for all featured games & apps on the current store
- We considered the results of More Games You Might Like
- Our model applies a download lift for Featured Games & Apps and a download LTV lift for Featured Games
 - Personalization should lead to higher LTV per game download.
 - The reason we believe this is that the content is more relevant to the customer
 - Looking at the current store, if you download a game like Candy Crush from the Featured Tab it's worth [REDACTED] including in-app after download but if you download via a referral from Facebook it's worth [REDACTED] which speaks their strong ability to target
- With all of that we compute annualized incremental billings

Featured Content Clicks Share from Visible Positions



The other thing to note is that clicks are heavily weighted to the most visible positions of the store: [REDACTED] of all Feature Content clicks go to the [REDACTED] shown here

Share from Visible Positions, iPhone



How that translates here in a few scenarios from the less aggressive to the more aggressive.

Download lifts in games range from [redacted] while apps are a little less with [redacted]
we add on the LTV bump for games

With that we arrive a year one incremental billings range from [redacted]

Download & LTV Lift Scenarios

	Low	High
+		
Featured Games		
Featured Apps		
Incremental (FY'19)		

Here is how that translates into low and high scenarios

Download lifts in games range from [REDACTED] while apps are a little less with [REDACTED]

We then add on an LTV bump for games

With that we arrive a year one incremental billings range from [REDACTED]

Editorial Content in More Places

Add Today content in left-of-home position

Siri and Spotlight support

- Investing in incredible Editorial content, want it in more places to drive users to the store from other places in the OS
- Exploring build a widget for LoH
- ██████ of Apple News traffic comes from LoH position
- Content would ideally be personalized
- Looking into how Siri and Spotlight could surface Today stories, collections, lists too, in addition to the apps they recommend today.

App Nutrition Labeling

Highlight Accessibility

Support Apple technologies: Apple Pay, ARKit, Metal, CarPlay, HomeKit, etc.

Provide users more transparency

Privacy, ads, IAP range, location, contacts, battery

Over-the-air download size

Higher ranking in recommendations, search and featuring where relevant

Developers will claim what features and technologies they have enabled and App Review will verify—tougher to do with some features so avoiding false positives is critical

Highlighting when an app utilizes accessibility features

Voice over, screen control, all accessibility features, captioning in videos

Additional Apple technologies: Apple Pay, ARKit, Metal, CarPlay, HomeKit, etc.

We hope more transparency will drive good behaviors in the developer community

Device size-calculation:

- Top-requested feature from developers.

- Show installed size, which varies per device. Updates sized differently.

- Display what will be sent over the air.

- Customers are choosing not to download an app as the size is incorrect, (installed size today), they believe download size is going to exceed their bandwidth allotment

- Important to emerging markets

Take into account for ranking in recommendations, search, featuring

FY'18 Focus Areas

Discovery

Growth

Developers

-Second focus area for FY18 is growth.

Growth

Apple Games Subscription Service

Customer Engagement

International Expansion

Commerce

Breakout Hits

Enhanced Analytics

Growth

Apple Games Subscription Service

Customer Engagement

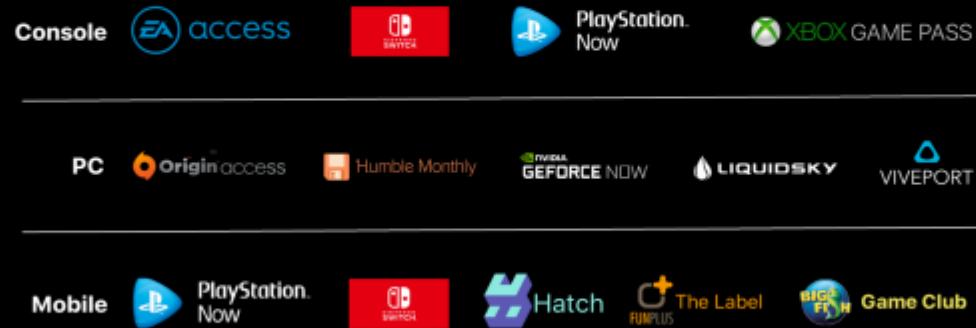
International Expansion

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Industry embracing subscriptions



All mobile services announced but not launched

- Console:
 - EA Access: July 2014, Xbox only, Download only, \$4.99/month, only EA titles
 - PlayStation Now: Jan 2014, PS3, then PS4, Streaming, \$19.99/month, only PS3 games right now
 - XBOX Game Pass: Announced launch in Spring 2017, XBOX + Windows 10, download only, \$9.99/month
- PC
 - EA Origin Access: Origin Access, Jan 2016, PC only, Download-only, \$4.99/month, only EA titles
 - Humble Bundle: Nov. 2015, PC only, Download-only, \$12/month, 100K+ subscribers
 - Nvidia's GeForce Now: 2015, PC only, Streaming access, \$25 for 10-20 hours of streaming play (depending on device)
 - Liquid Sky: Beta announced for early 2017, PC + Android, Streaming access, Ad-supported or \$9.99 for 20-80 hours of streaming play (depending on level)
- Mobile:
 - PlayStation Now: Not-yet-announced mobile extension of an existing streaming service for PlayStation users, Streaming access to over 450+ PS3 games to start, with PS4 games to follow.
 - Hatch: Spun off from Rovio and launching in 2017 (Android first); Streaming access to over 100 mobile-first premium games from over 50 developers; Ad-supported business to start, followed by an ad-free subscription offering.
 - The Label: Backed by Chinese gaming company FunPlus; Announced that they plan to be the "HBO of mobile gaming."
 - "Big Fish Game Club," which plans to offer a subscription to its first party games catalog. Game Club is currently available on PC for \$6.99/month

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Games Subscription Service

Games: 100+ at launch, 10 new per month

Play Experience: No IAP, no ads

Value: One price for the whole family, all-you-can-play

Developers: Viable model for premium mobile games

Launch Plan:

FY'18: Design, build, license, announce

FY'19: Launch, scale

Perfect for families with kids

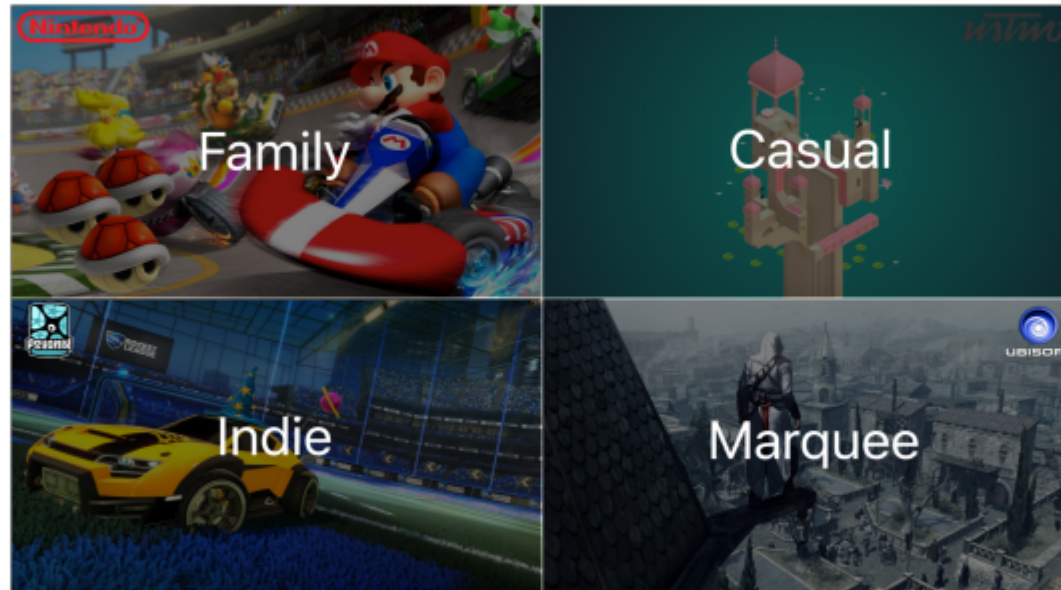
Family members included for no additional fee

No in-app purchases, no ads, no behavioral targeting

Many games appropriate for kids

Restrictions in the cloud

Privacy-centric personalization



Examples:

Mario Kart from Nintendo

Casual—Monument Valley is the exception to the rule these days, and our service will be the impetus to bring more titles like this to mobile.

Core is a broad segment, and contains indie games as well as AAA console games. We plan to target both ends of this spectrum with games like Rocket League and Assassins Creed.

Content Acquisition Plan

Tier	Cost	Launch #	Annual Adds #
AAA			
AA			
Indie			
Other			

Target Studios

AAA

AA

Indie

Here are the top 30 studios we'd like to target. Existing and new IP. We have a target list of a few hundred titles, but these are the developers we'd prioritize.

Great for premium developers

Super Mario Run



Lara Croft GO



Chameleon



Severed



Improved model for premium



Super Mario Run



Lara Croft GO



Chameleon



Severed

Great for premium developers

Super Mario Run



Lara Croft GO



Chameleon



Severed



Improved model for premium



Super Mario Run



Lara Croft GO

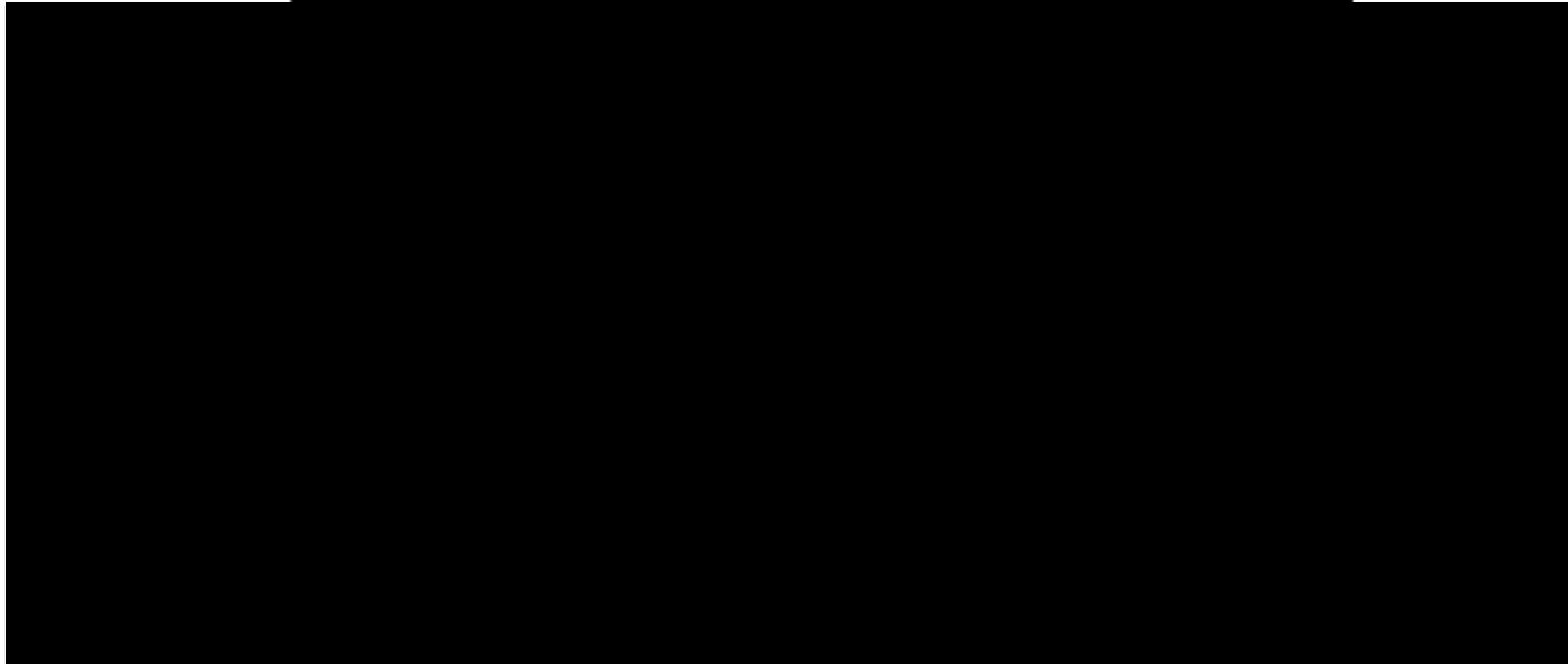


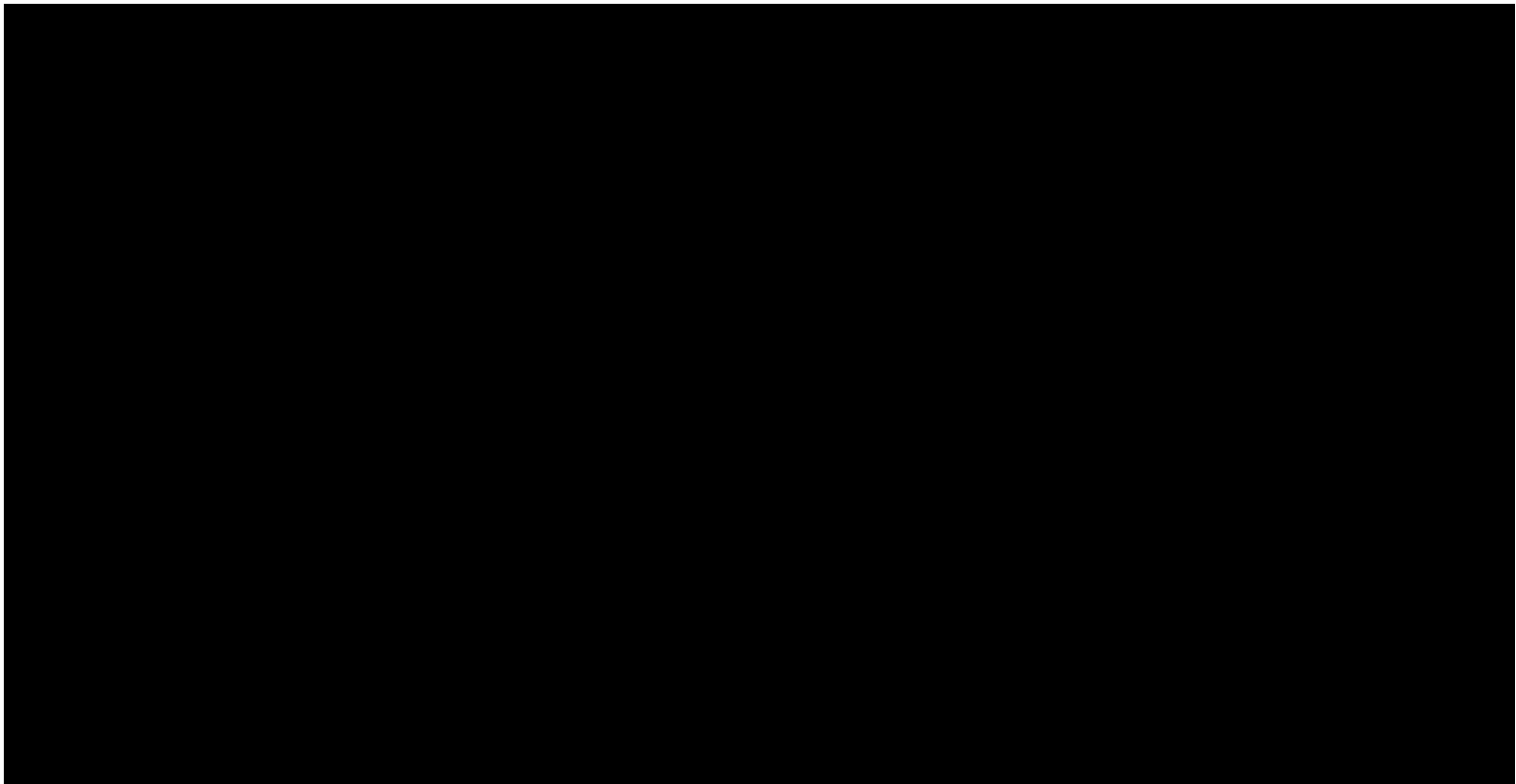
Chameleon



Severed

Content Costs





Growth

Apple Games Subscription Service

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Vision

Communicate with our customers in a way that is personalized, timely, and relevant that enriches their experience with our products and services.

We are talking about CRM, but CRM is a tool, the benefit and result is customer engagement (leading to customer happiness and increased LTV)

However today

Not personalized
Not always relevant
Not always timely
Email only

We need to be realistic, right now we are limited to one channel email

With the exception of a few manual exceptions in Music (weekly Spotlight, limited to top 10 markets EOY), our communications are generic and not personalized

Since they are not personalized, they are often not relevant, leading to reduced open rates/response, customer annoyance

Comms are also not timely, timing should be driven at the customer level, not the campaign level

Email Engagement - last 12 months

	Audience Size	% of Active Accts
Transacting Accounts	958M	100%
Emailable Audience	607M	63%
Clickthrough 1x	36.8M	4%
Clickthrough 2x	11.4M	1.2%
Clickthrough 4x	3.6M	0.4%

Email channel is dying or non-existent, especially in markets like China. We need a multi-channel approach, optimized by customer preference/response

Accounts transacting in last 1 year- includes all accounts who have made a transaction in the last 365 days

Email Openers - a combination of user manual opens and automatic mail client loads on any iTunes email in last 365 days

Email Click through - unique accounts who have clicked on any 1 or more iTunes emails in last 365 days (truest measure of engagement)

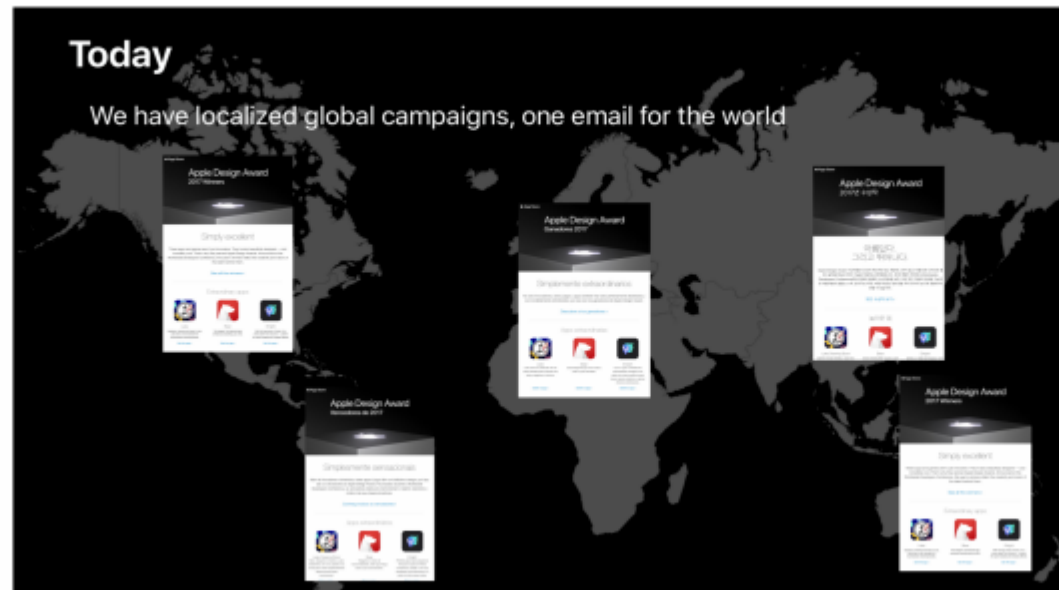
Additional Data:

Unique Responders 2x - have clicked on 2 or more emails - 11.4M - 1.2% of active accts

Unique Responders 4x - have clicked on 4 or more emails - 3.6M - 0.4% of active accts

Unique Responders 6x - have clicked on 6 or more emails - 1.8M 0.2% of active accts

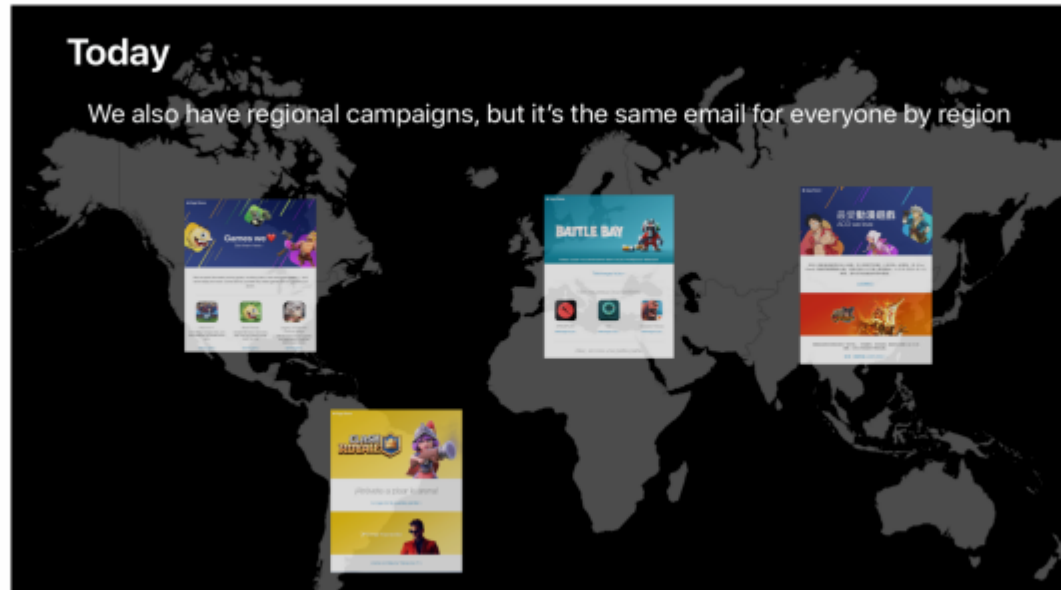
Source = GBI and ICA as of July 19, 2017



Today, we execute email one of two ways. First, we send globally relevant content, translated by Geo, but essentially, we are sending one email to the world

Today

We also have regional campaigns, but it's the same email for everyone by region



Second, we send our regional campaigns, with local relevant content, in the native language. But, its the same email for every person in that country or Region. Regardless of your previous app purchases or interests.

Future

We need to personalize for individual customers, worldwide

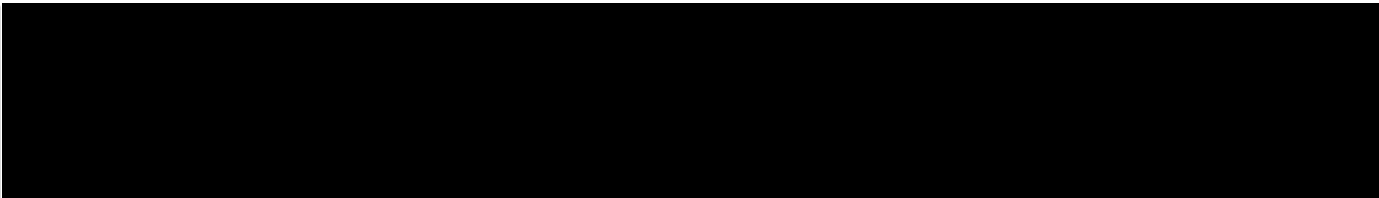


So, our marketing needs to leverage the App Store recommendations engine, so our communications to every customer are also personalized, making them relevant. Manual tests have shown significant lift in App downloads as compared to generic email (50% lift)

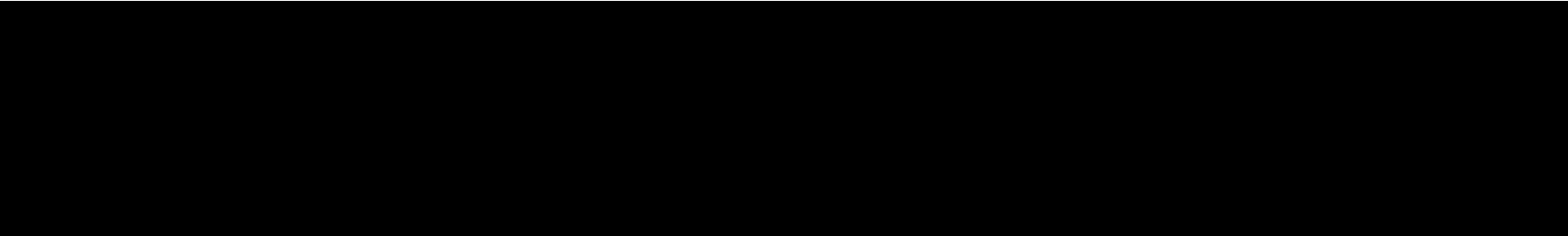
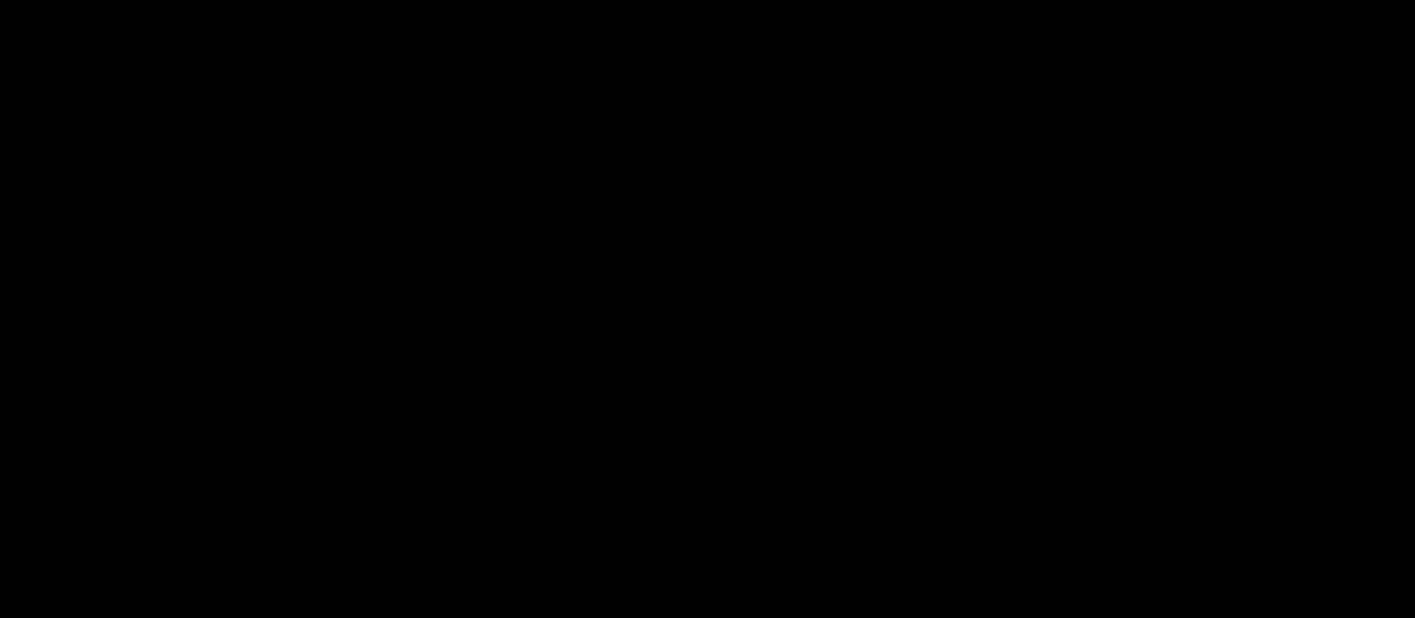
Future



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So what are we doing?



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Current Project Status

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Recent Email and Push Notification Test Results

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App Store - Year 1 Benefit (FY'19)

Converting Free to Paying 503M Customers		Increase MRPPU of Paying 214M Customers	
	Low (1%) High (2%)		Low (3%) High (5%)
New to Paying Customers		Increase in MRPPU	
Incremental revenue (MRPPU)		Incremental revenue	
		Low High	
		Total	

[REDACTED]

Music - [REDACTED]
 Movies - [REDACTED]
 Books - [REDACTED]
 Games - [REDACTED]
 iCloud - [REDACTED]

All Services - Year 1 Benefit (FY'19)

	Low	High
App Store		—
Apple Music		—
Other IS&S		—
Total		—

App Store assumptions:

payer conversion assumes increase in annual paying customers

payer retention assumes increase in MRPPU (Median Revenue...)

Music -
 Movies -
 Books -
 Games -
 iCloud -

CRM Headcount Needs

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Growth

Apple Games Subscription Service

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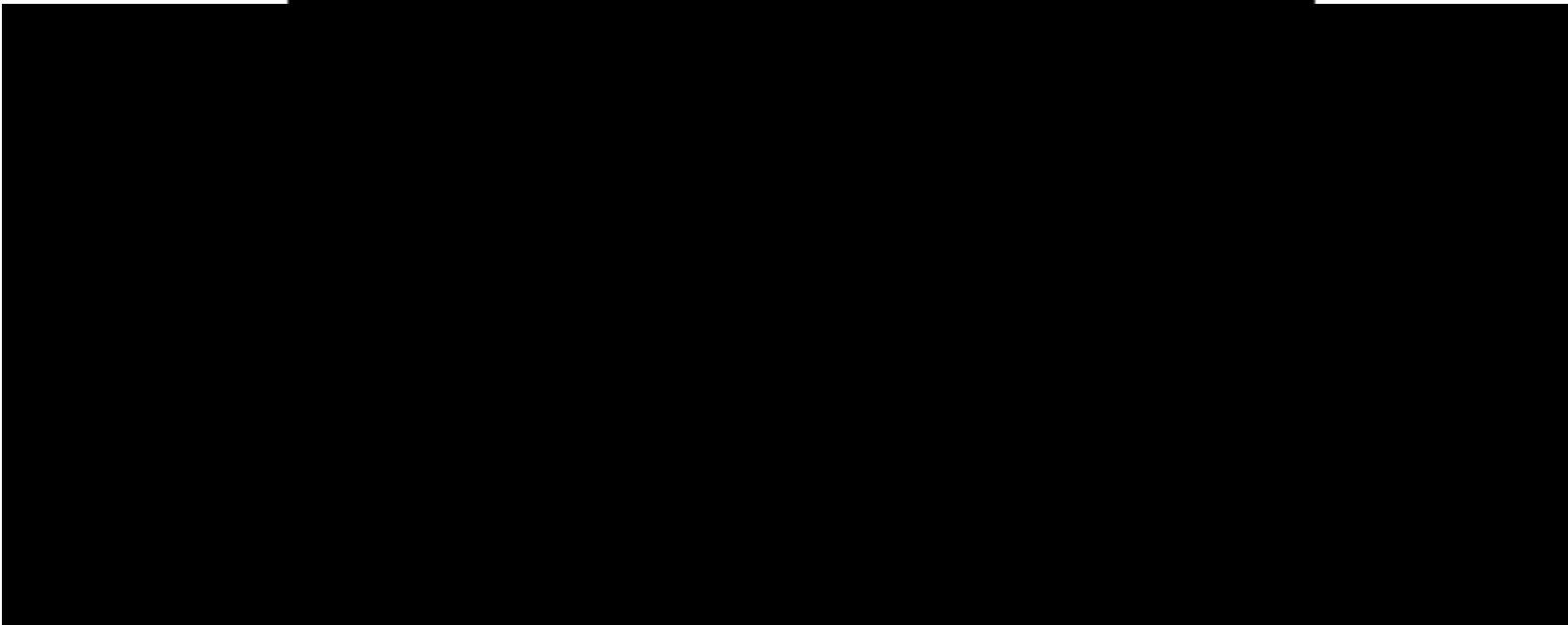
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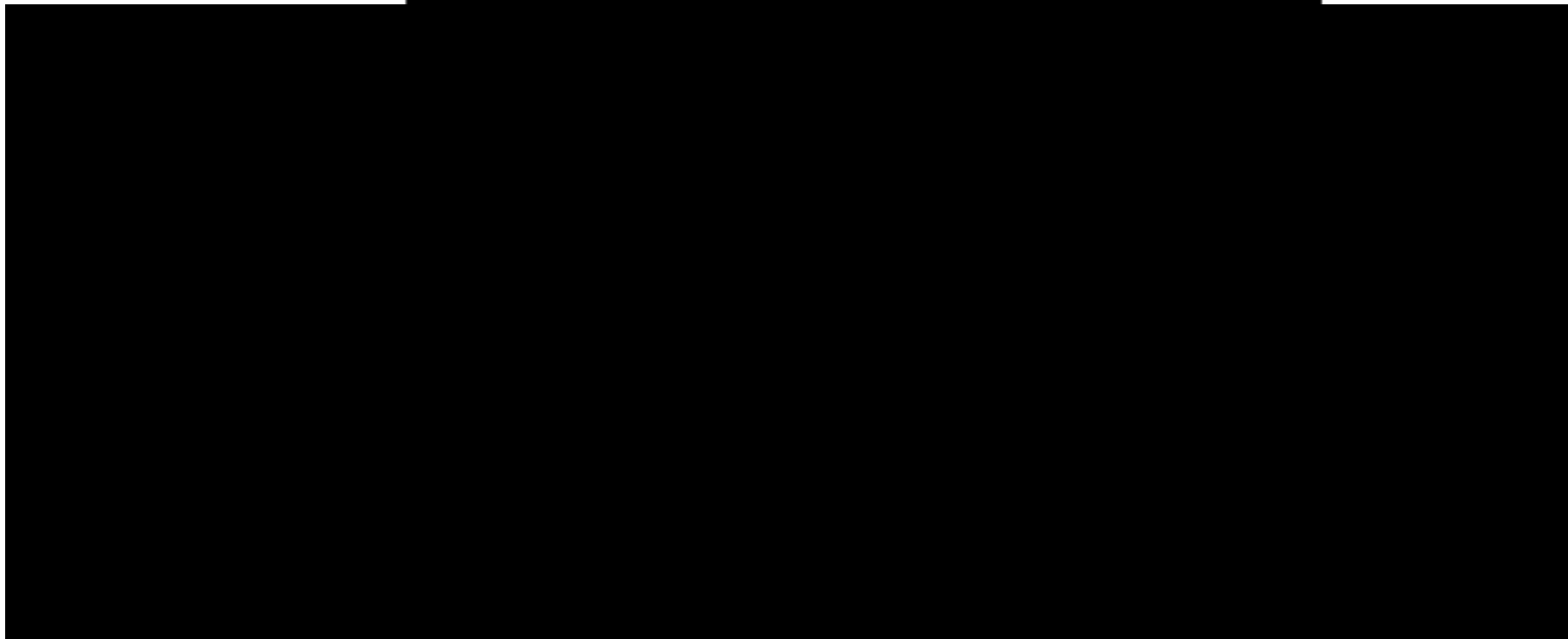


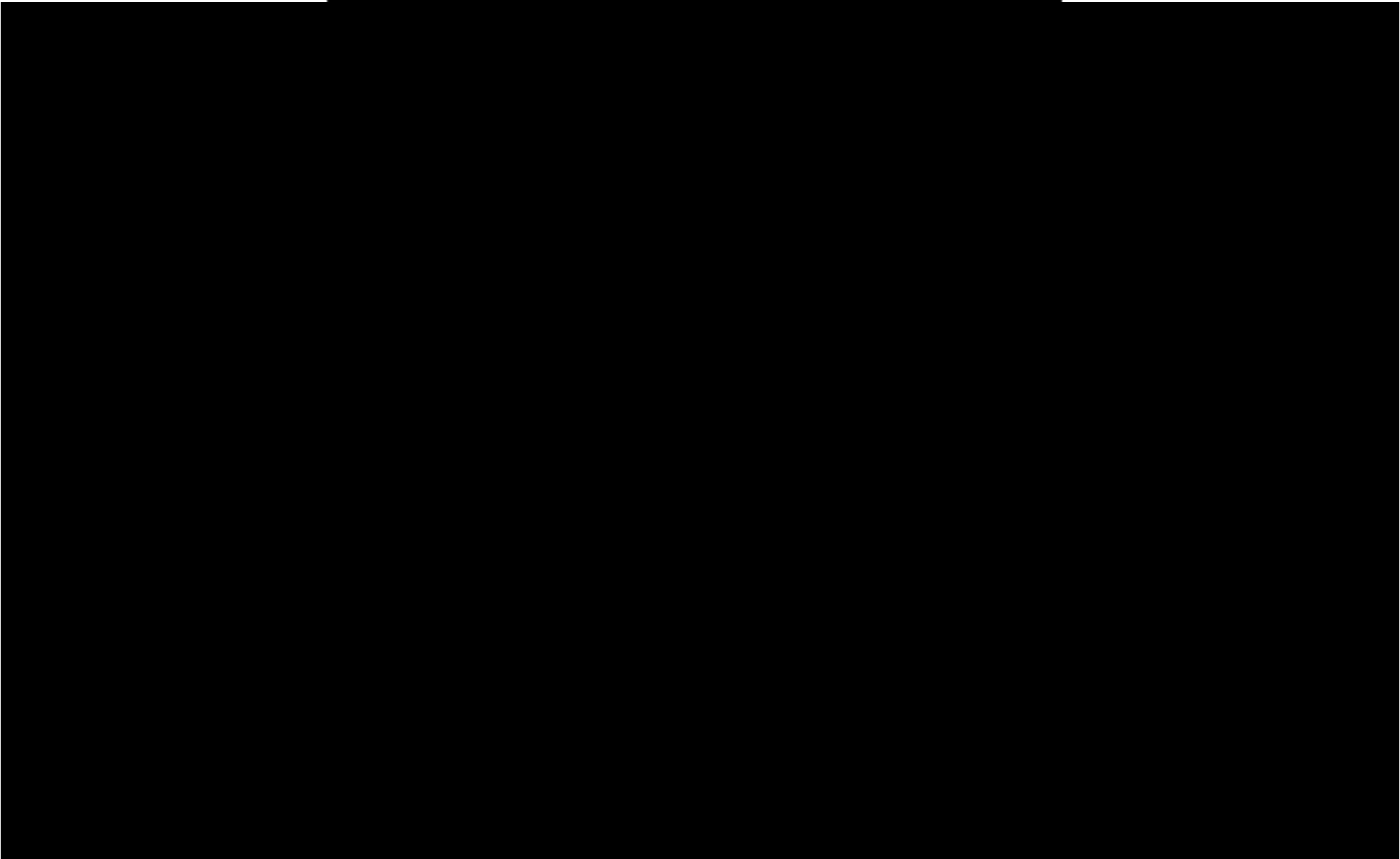
Relaunching in Brazil





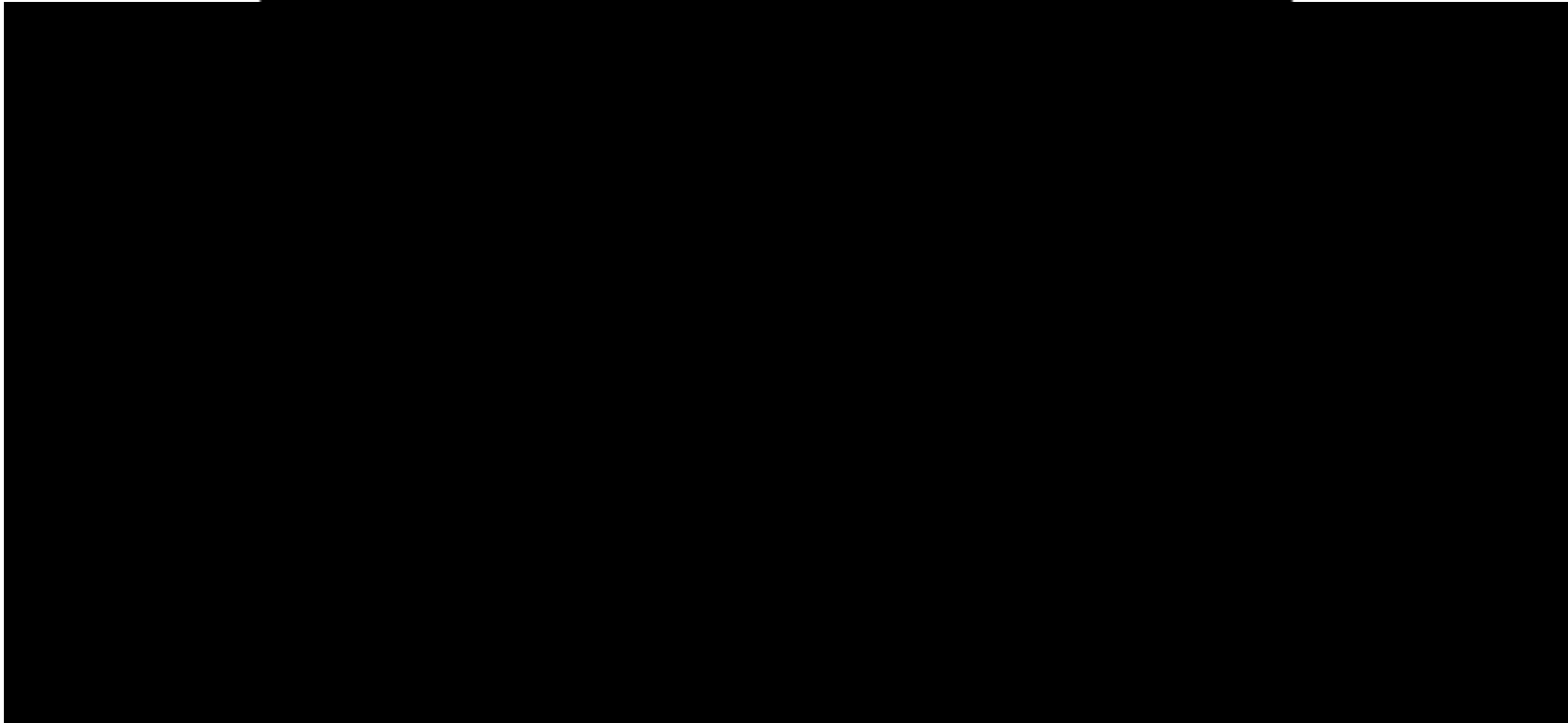
Relaunching in Korea







Growth in Russia



Adding Local Languages

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Adding Local Languages

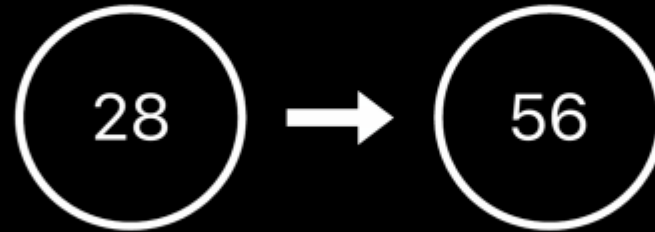
Right to Left Language Support

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Market Development & Localizing Editorial

PX-2176.85

Adding local storefronts



Countries we can reach in local language with additional resources
We are curating main

Growth

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Payments Launches & Roadmap

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Payments Program to Date

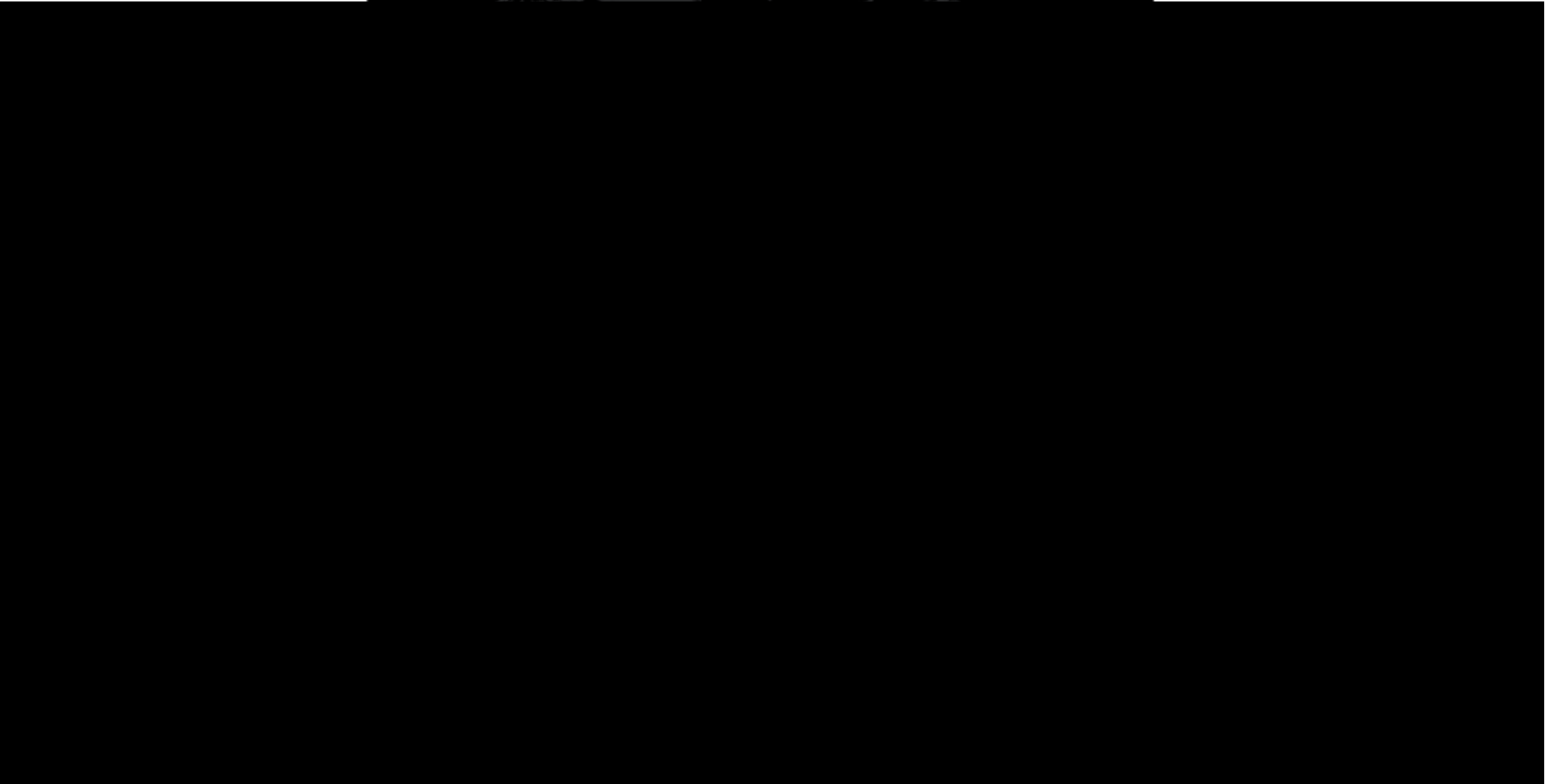
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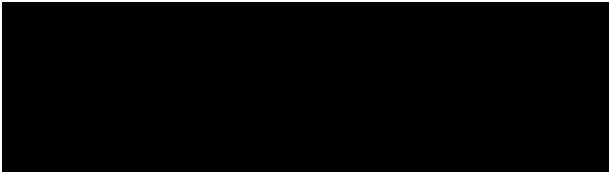
Payments Contribution by Fiscal Year

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Payments Contribution by Payment Type by Fiscal Year

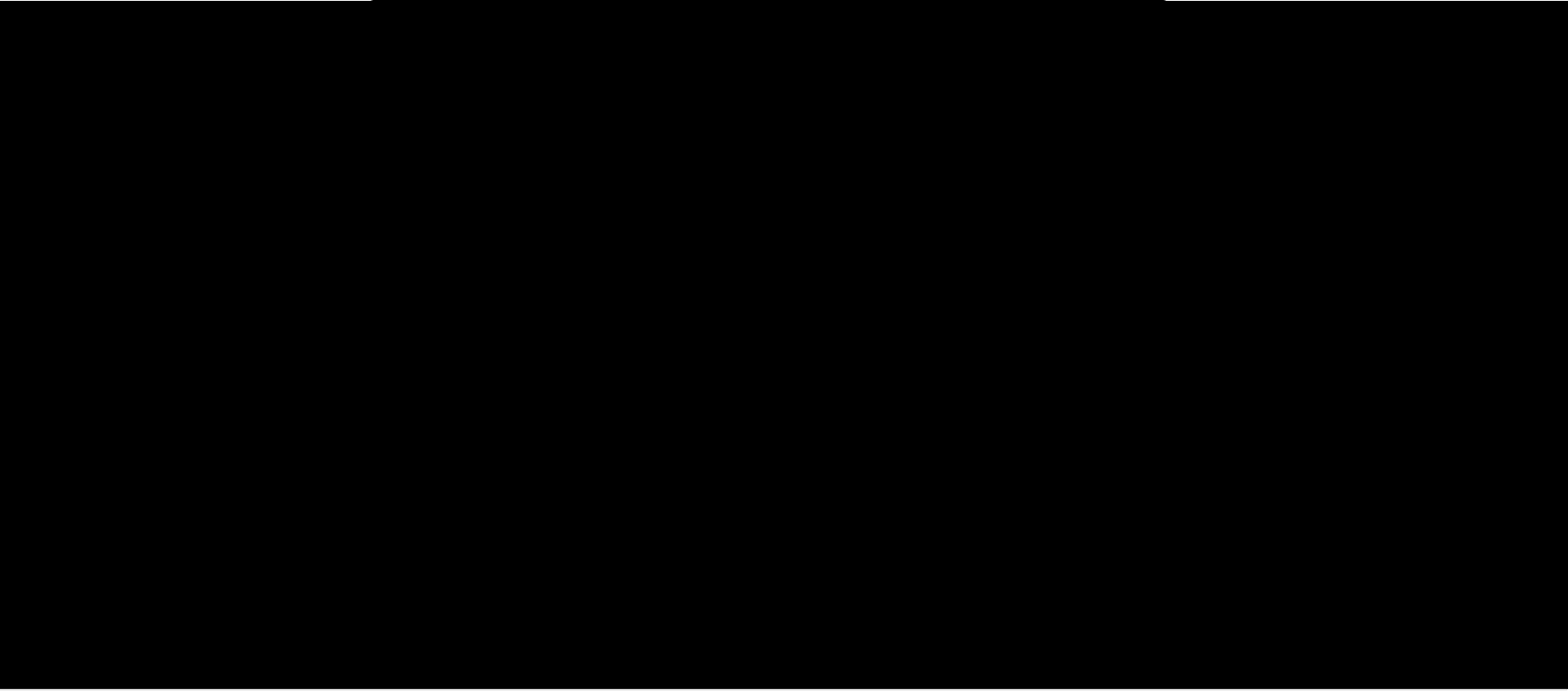
Gift Card Expansion





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Core Commerce FY'17 Results



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Core Commerce Program Roadmap

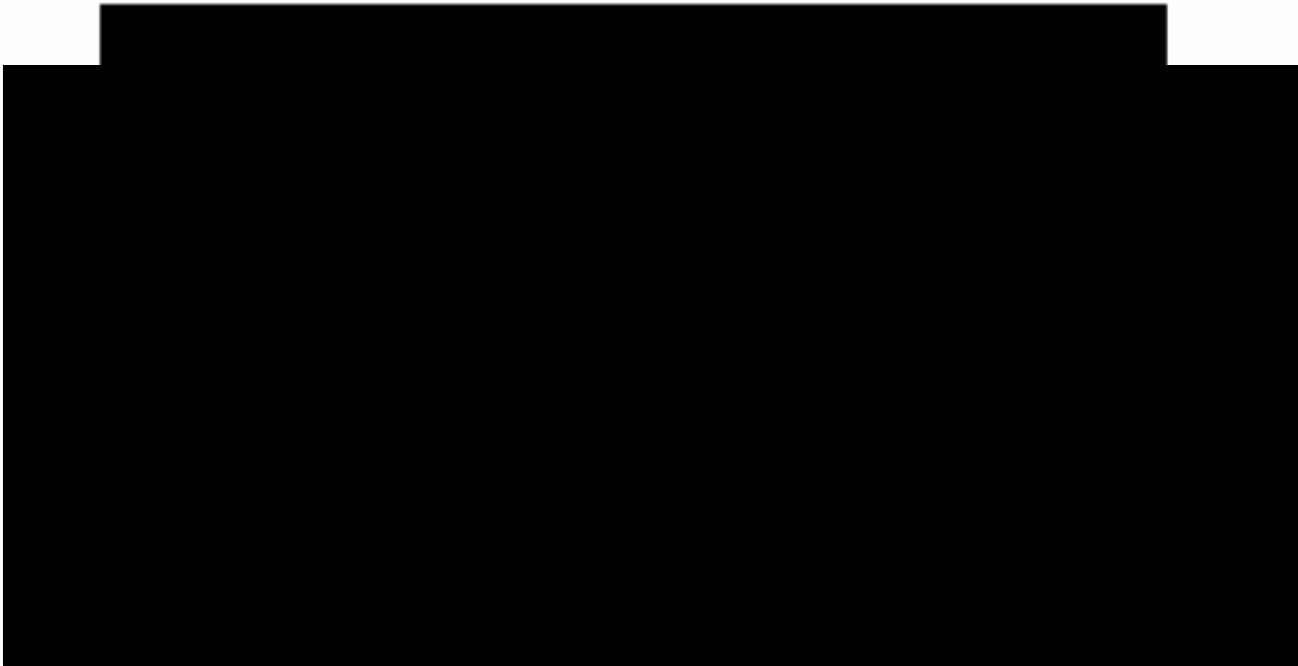


Core Commerce FY'18 Forecasted Impact

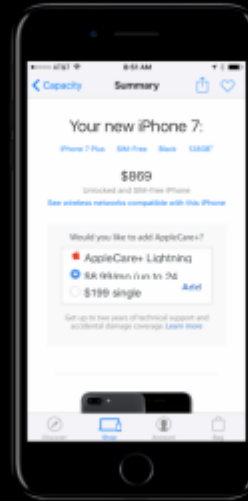
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Subscriptions FY'18 Features

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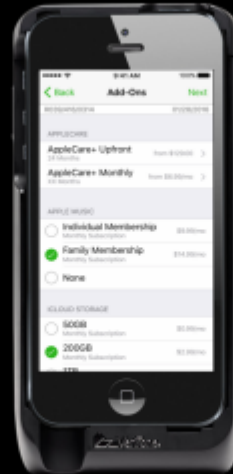


Apple Store App



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Easy Pay



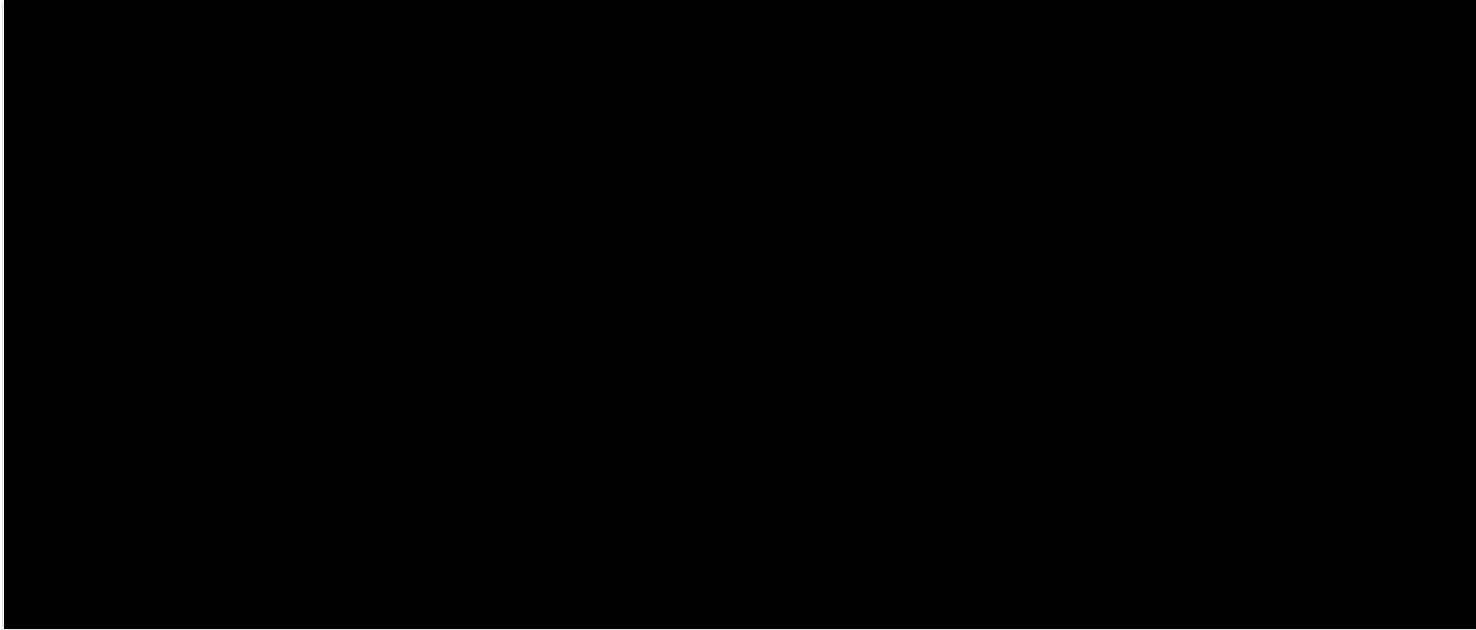
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Easy Pay



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Preliminary Flow



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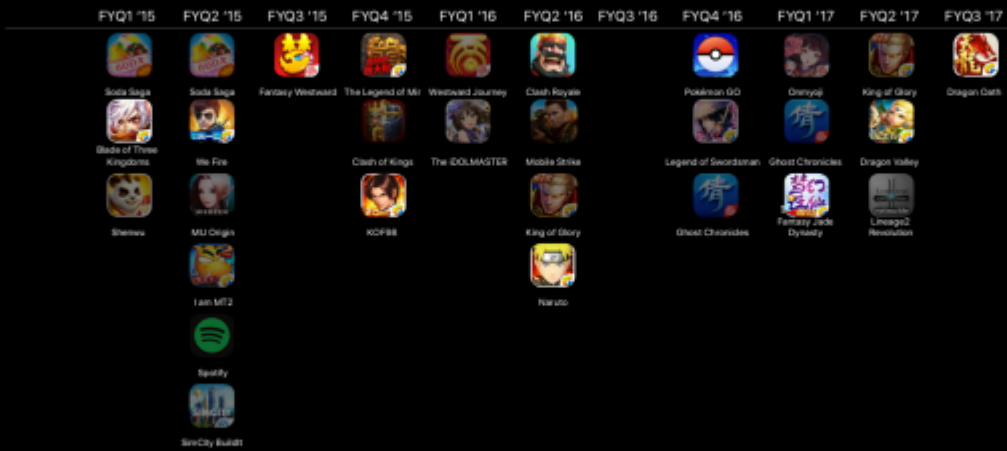
Breakout Hits Definition

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Breakout Hits Trend



Breakout Hits Trend



- Highlighted if new in same quarter

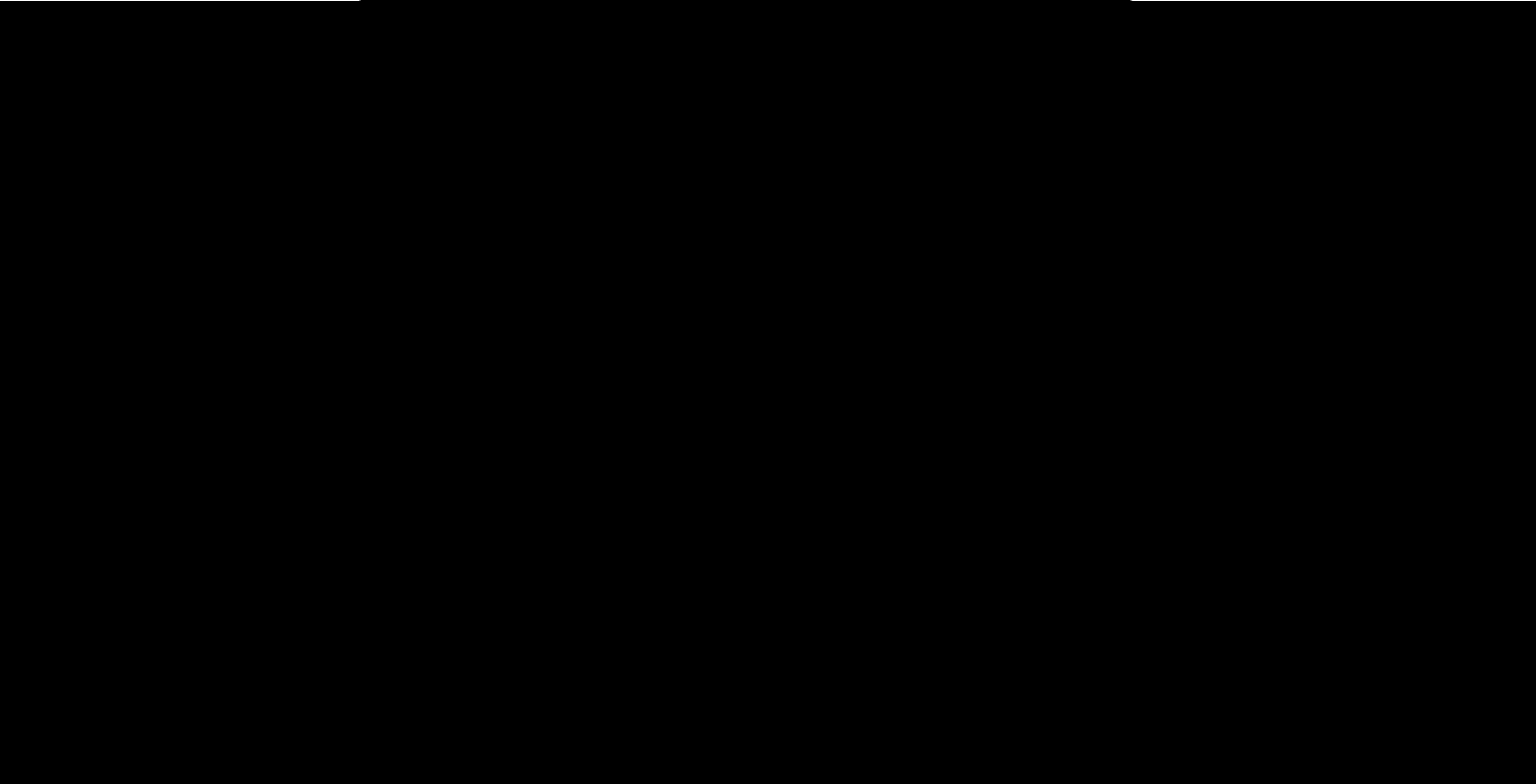
Breakout Hits Country of Origin 2014-17

PX-2176.108

Breakout Hits Diaspora

	FYQ2 '16	FYQ3 '16	FYQ4 '16	FYQ1 '17	FYQ2 '17	FYQ3 '17
 Lineage2 Revolution				Korea	Korea	Taiwan Hong Kong Thailand Singapore
 King of Glory	China			Taiwan	China Taiwan Hong Kong Thailand	Thailand
 Onmyoji			China	China Canada Australia UK	Taiwan Hong Kong	
 Ghost Chronicles		China	China	China	Taiwan	
 Legend of Swordsman		China	China	Taiwan Hong Kong		

Breakout Hits in Fast Movers FYQ3 '17



Breakout Hits

PX-2176.111

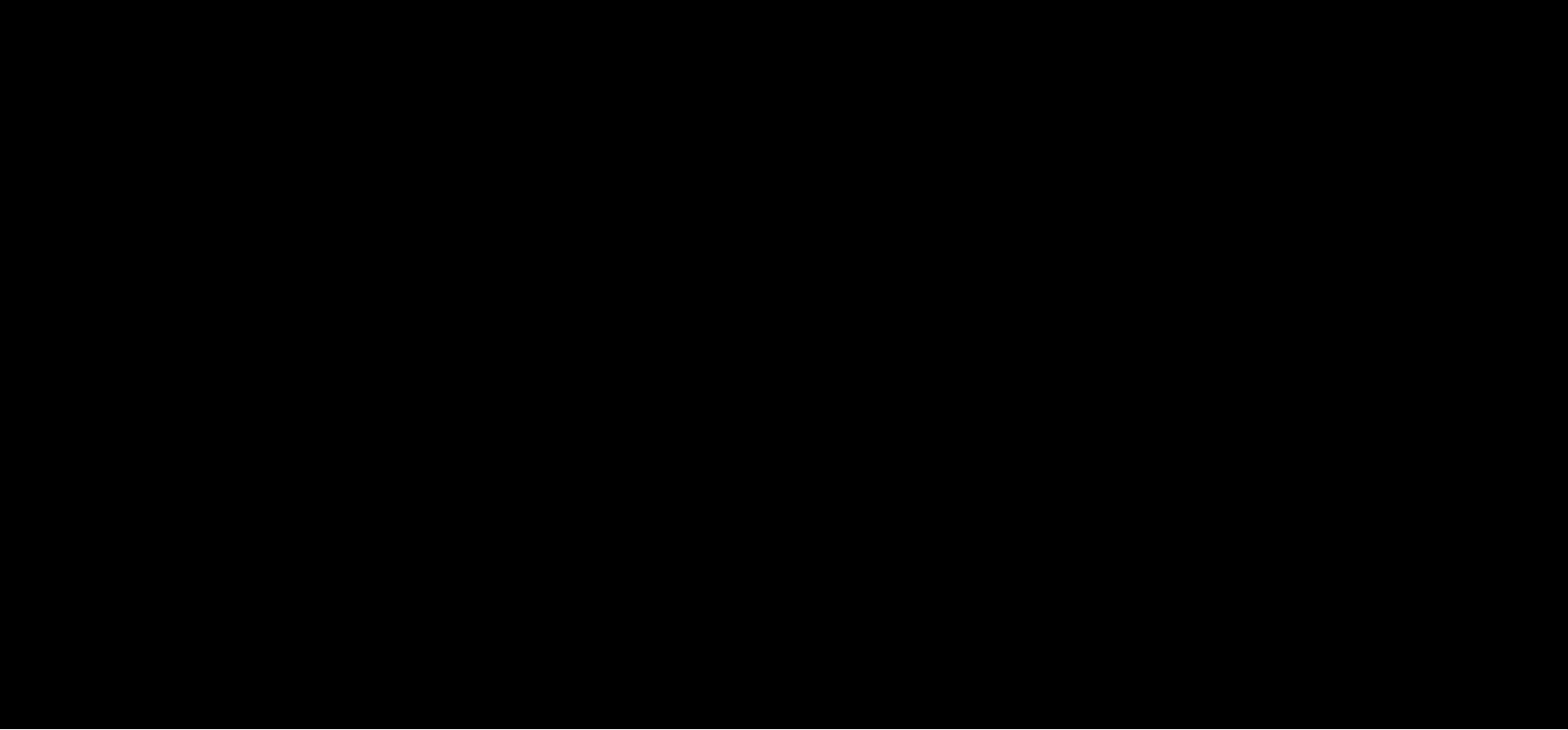
App Lifecycles

PX-2176.112

App Lifecycles

PX-2176.113

App Lifecycles



Identify and Amplify Breakout Hits

Redacted

PX-2176.115

Identify and Amplify Breakout Hits

Redacted

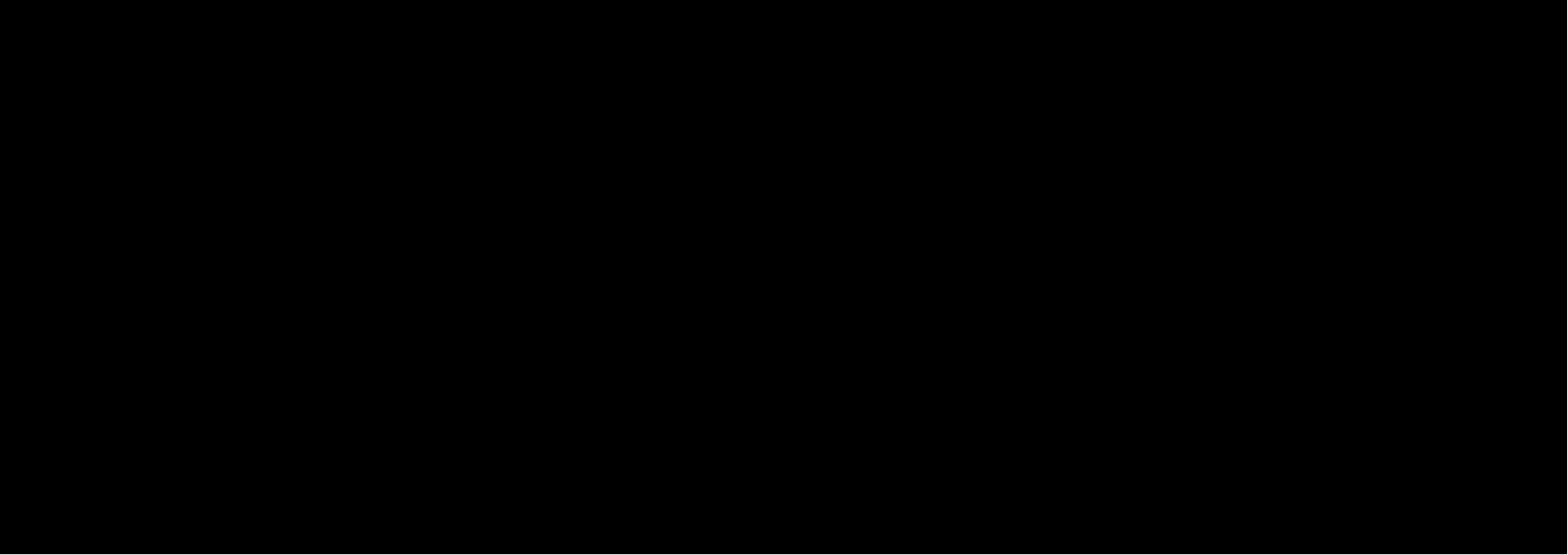
PX-2176.116

Redacted

International Analytics

PX-2176.118

Support from App Store



PX-2176.119

Redacted

Multiplayer Online Battle Arena (MOBA)

A match between two teams

Control a single character (hero)

With AI team mates

Destroy the opposing team's base

Level-up during the course of game



Typical map of a MOBA game

- Teamwork and cooperation
- Choosing from dozens of heroes that have different and unique abilities
- Killing units and heroes to gain points to level up and golds to buy gears to strengthen its abilities
- With the assistance of AI units, which are marching along the three lanes
- Final objective is to destroy enemy's base structure

[REDACTED]

Redacted

Growth

Apple Games Subscription Service

Customer Engagement

International Expansion

Commerce

Breakout Hits

Enhanced Analytics

Growth

Apple Games Subscription Service

Customer Engagement

International Expansion

Commerce

Breakout Hits

Enhanced Analytics

A lot of the initiatives we have covered today rely on data and analytics to succeed, so we want to quickly share how we plan to enhance our capabilities in those areas to support these initiatives ... and more.

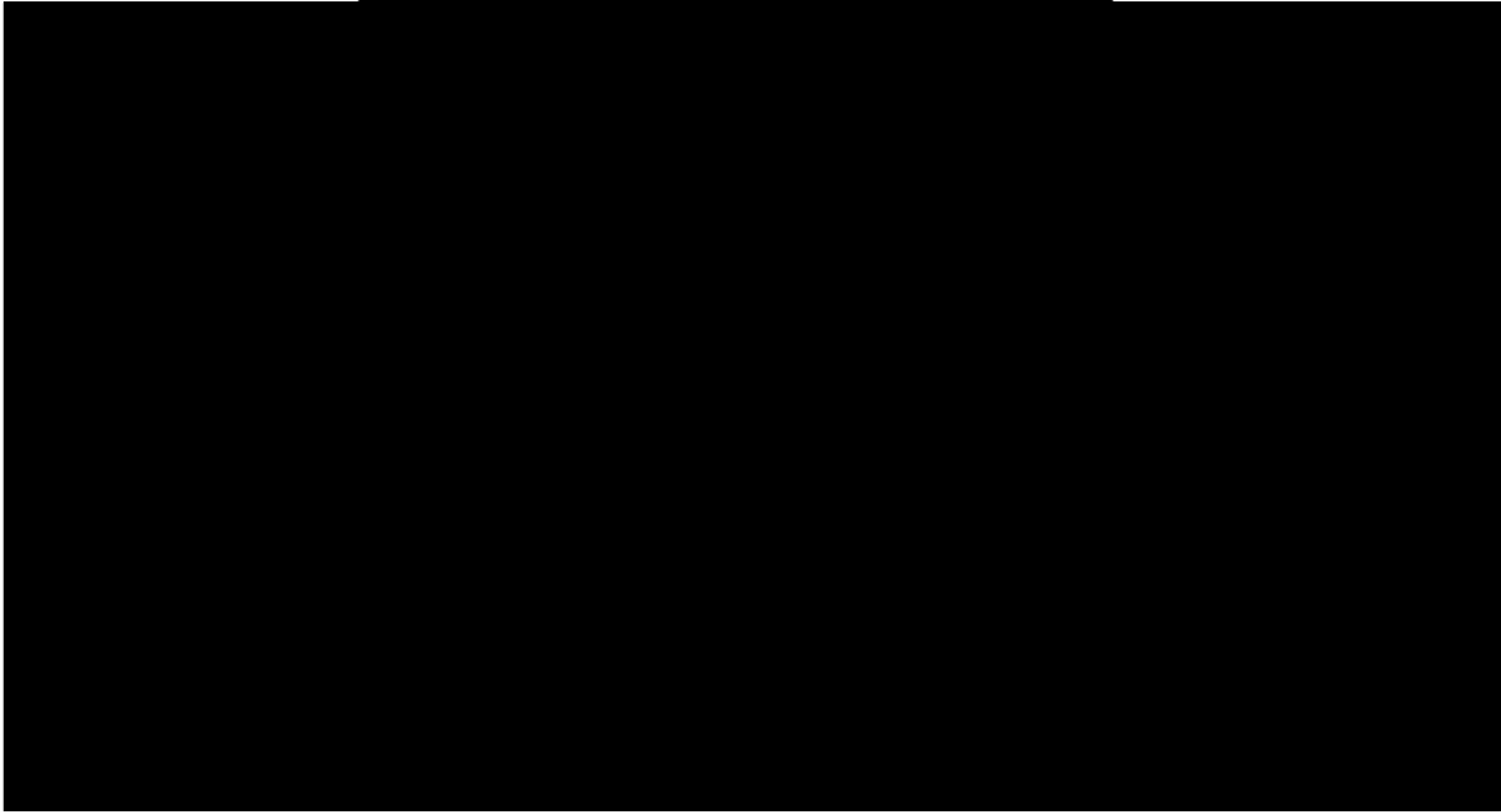
Enhanced Analytics

PX-2176.125

Enhanced Analytics

PX-2176.126

Enhanced Analytics: FY'17 App Store Redesign Pilot



We've already started down this path through a pilot project that goes live with the redesign in September

PX-2176.127

Enhanced Analytics: FY'18 Deliverables

Enhanced Analytics: FY'19 Plans

FY'18 Focus Areas

Discovery

Growth

Developers

[Handoff to Ann]

FY'18 Focus Areas

Discovery

Growth

Developers

-App Store's success depends on the success of its developers

<CLICK>

Developer Focus Areas

Product Page A/B testing

App Store Connect

Developer API

-Doing a lot for developers next year, 3 things that stand out

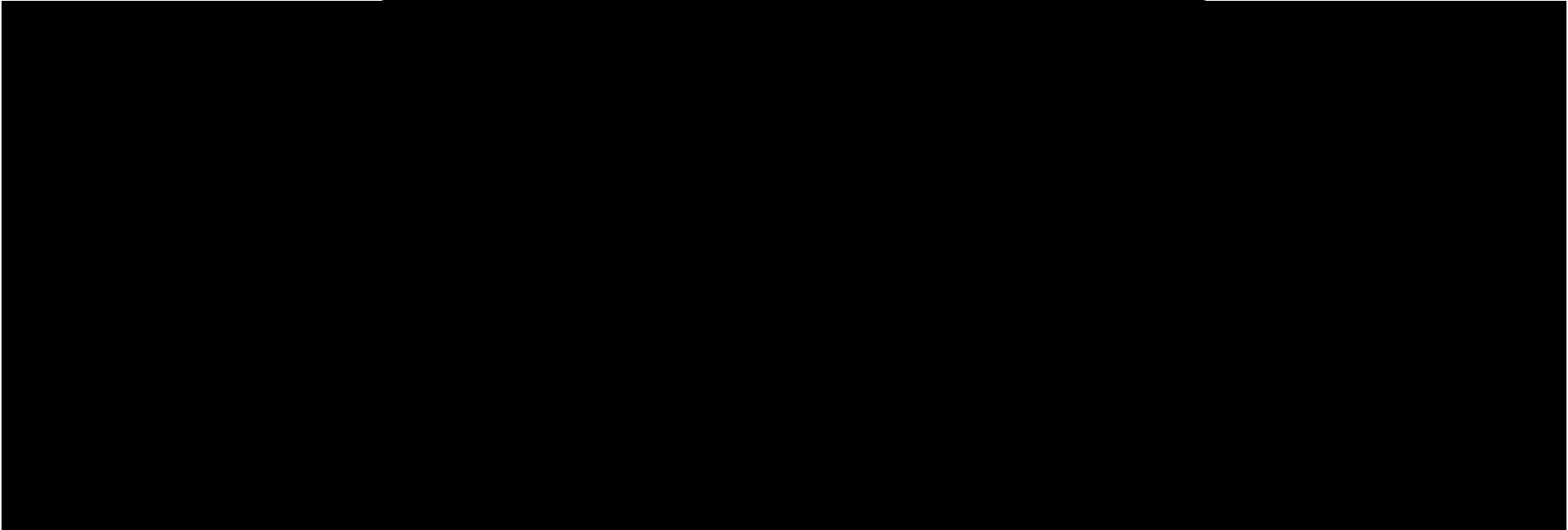
Redacted

-Improve overall developer experience on our platform with App Store Connect & Developer API

Product Page A/B Testing

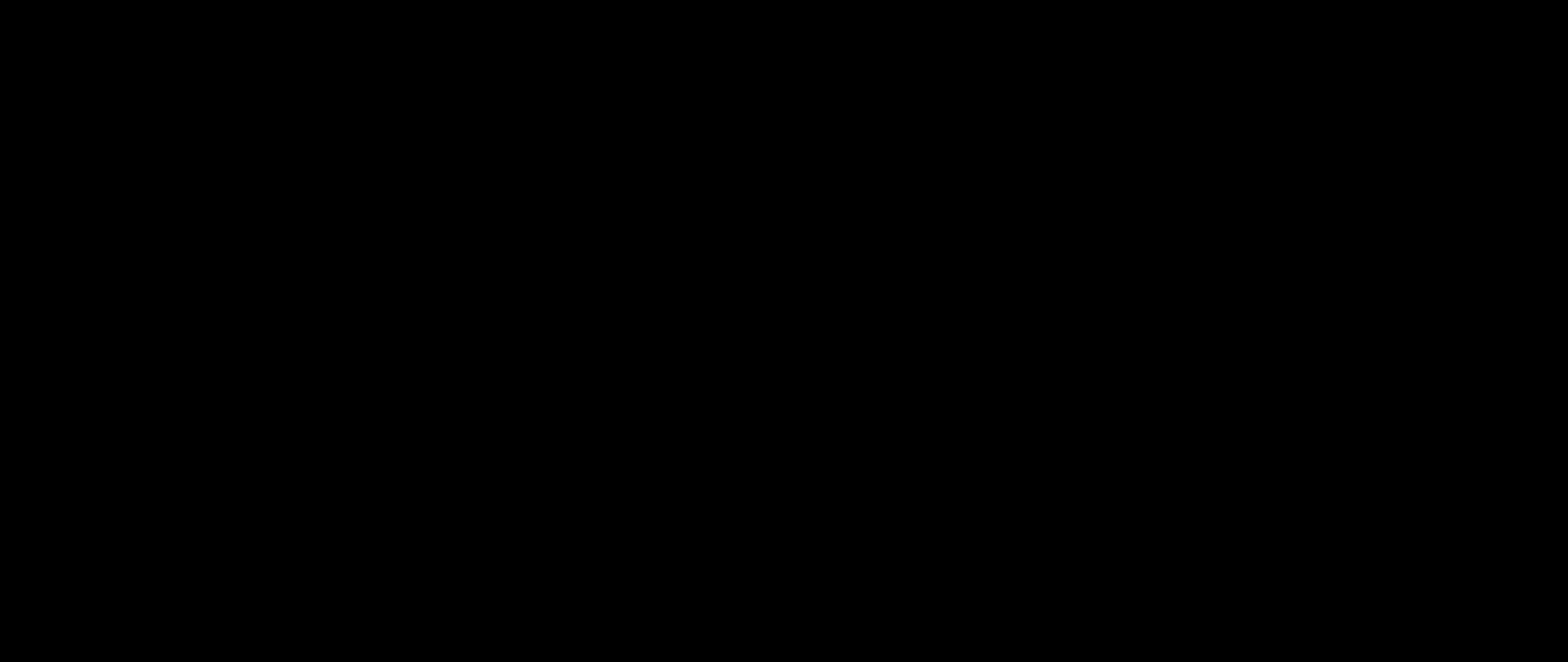
PX-2176.133

iTunes Connect Today - Mobile & Web



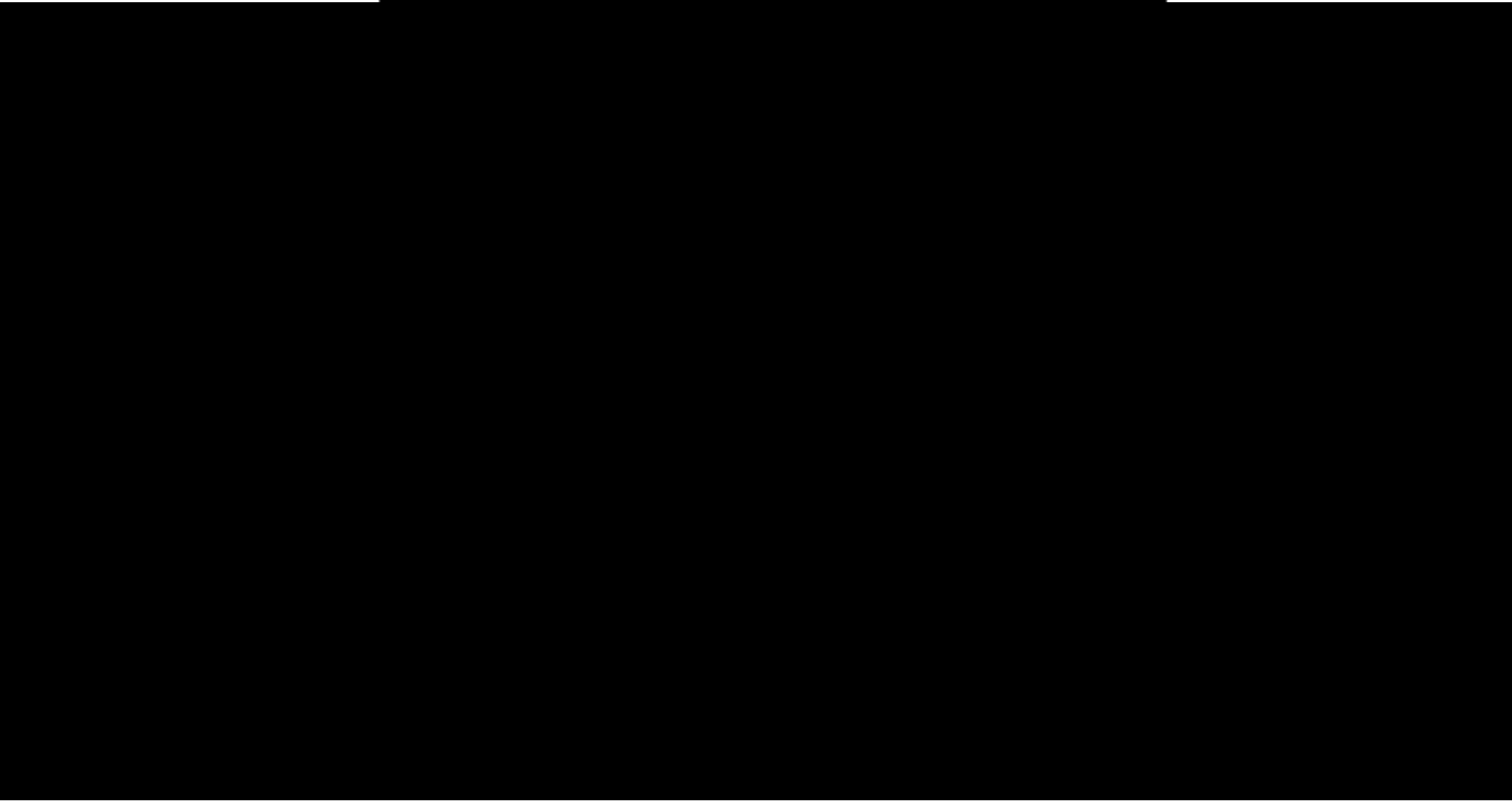
PX-2176.134

App Store Connect



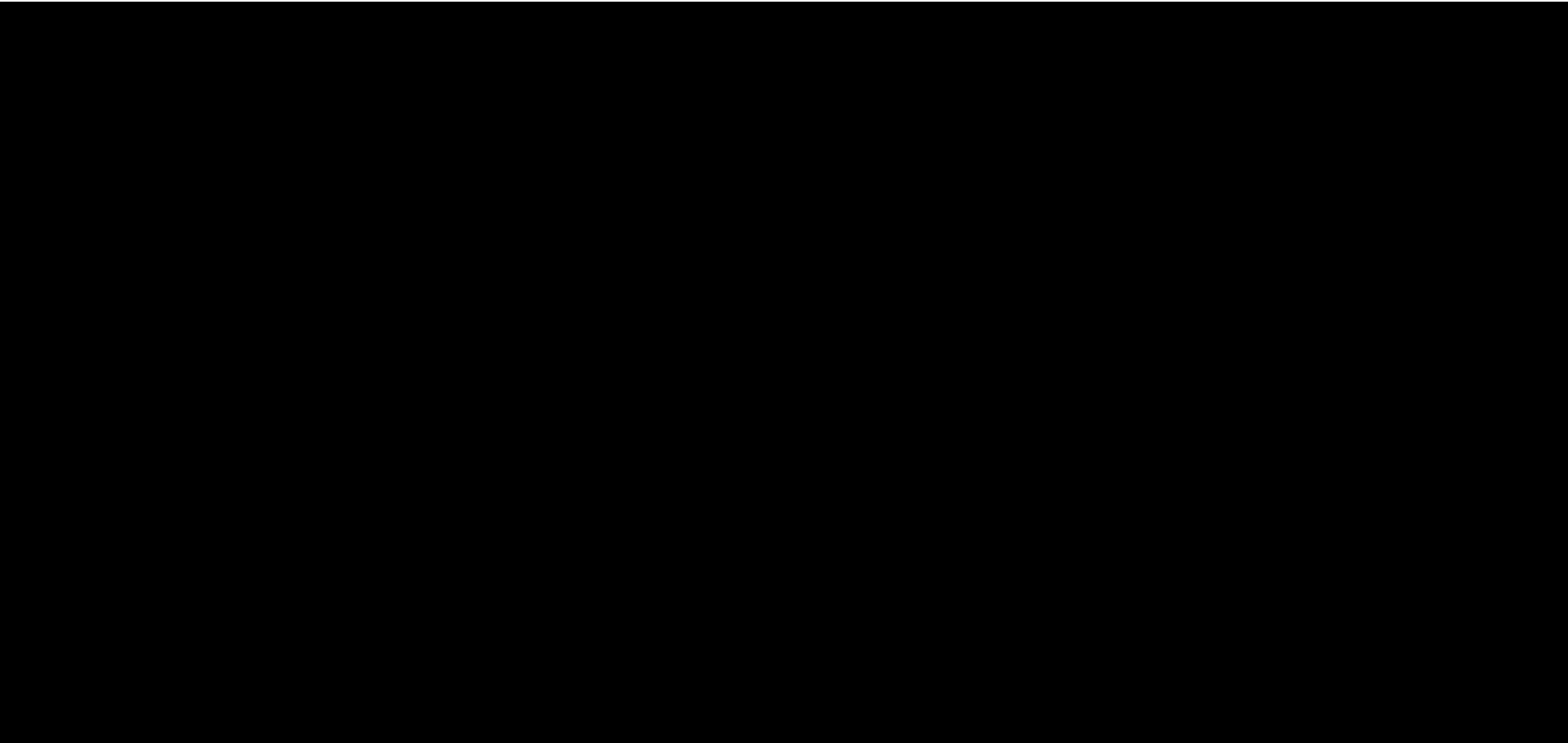
PX-2176.135

Developer API



PX-2176.136

Developer Experience



FY'18 Focus Areas

Discovery

Growth

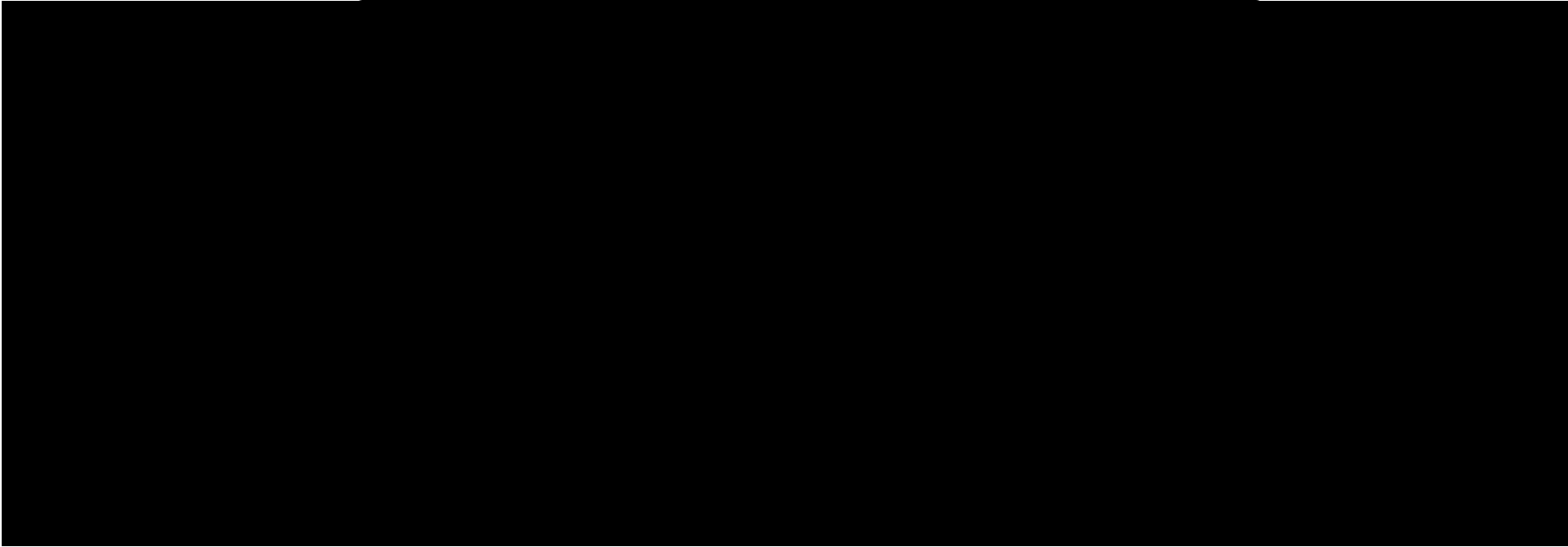
Developers

Finance

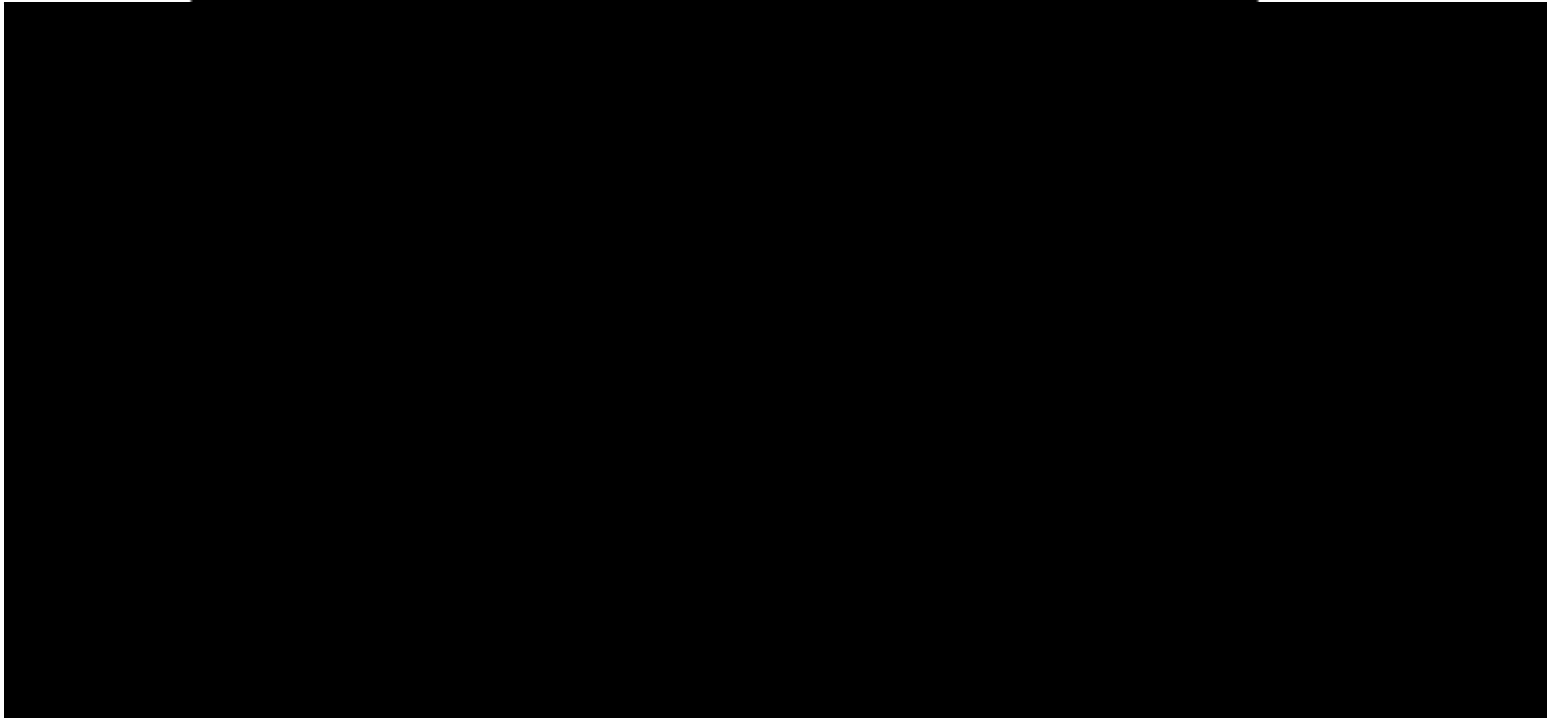
<CLICK>

PX-2176.140

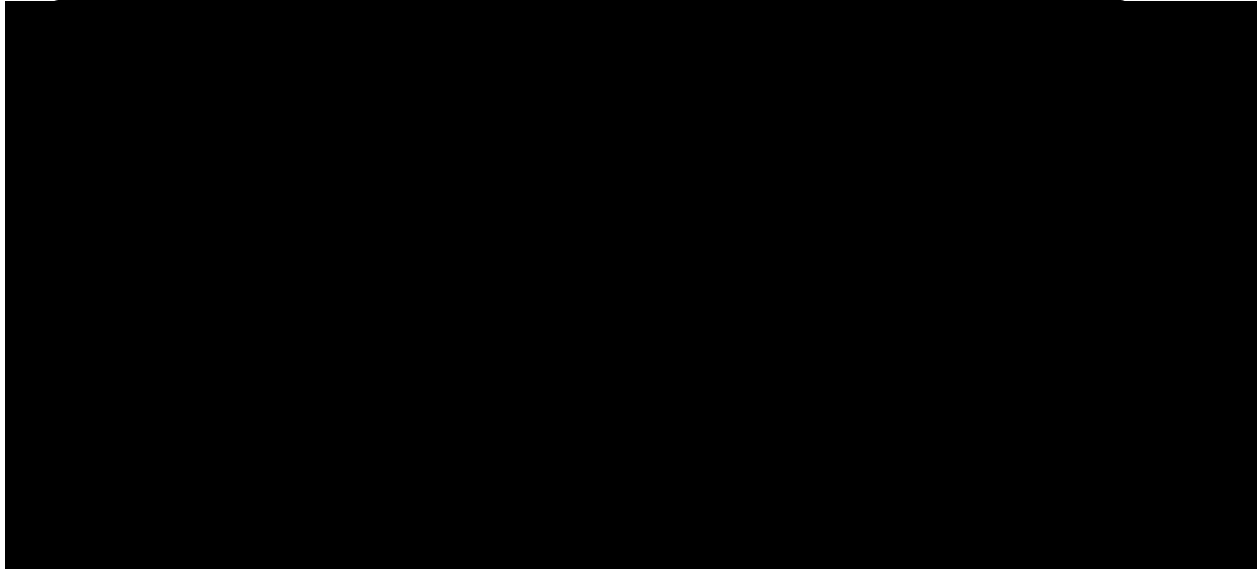
App Store Gross Billings (Normalized)



App Store Gross Revenue (Normalized)



App Store YoY (Normalized)



App Store Gross Billings



PX-2176.144

Headcount Ask

PX-2176.145

Headcount Ask Cost

PX-2176.146

CAPEX Ask



PX-2176.147

Headcount detail

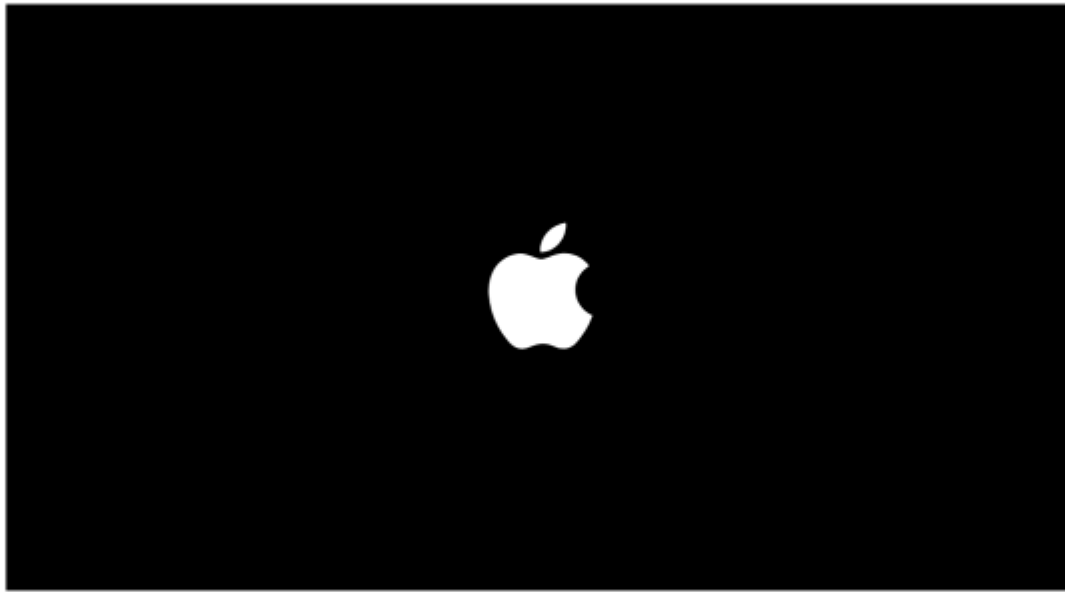
PX-2176.148

Headcount detail

PX-2176.149

Headcount detail - Including Infrastructure

PX-2176.150



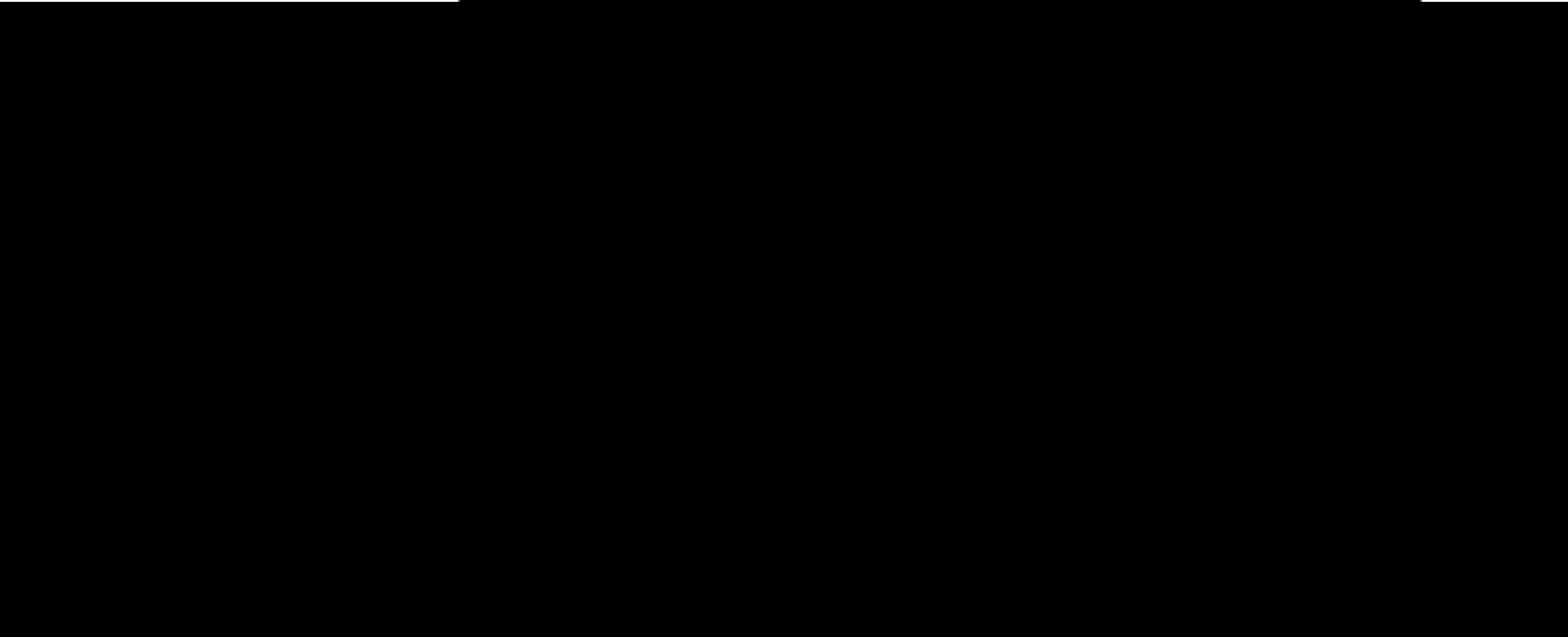
PX-2176.151

Business Update Appendix

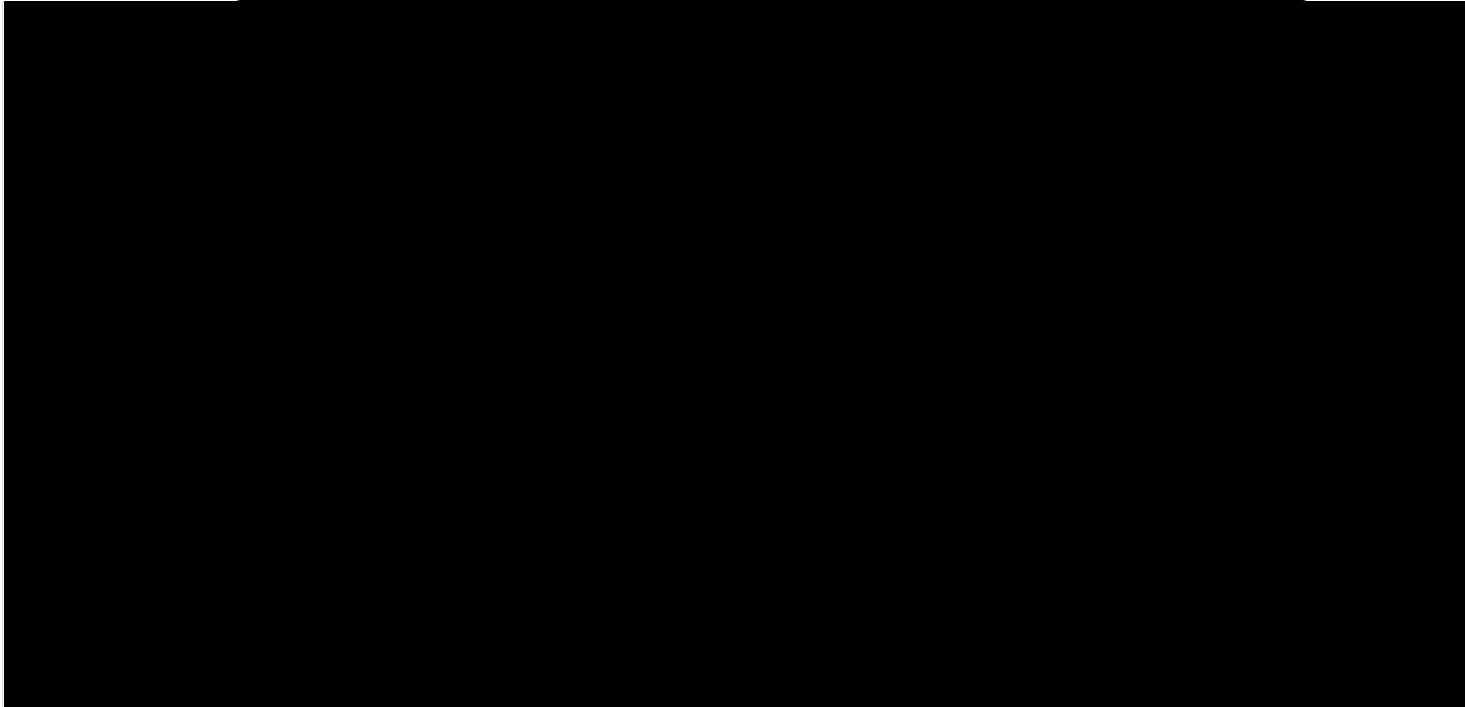
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PX-2176.152

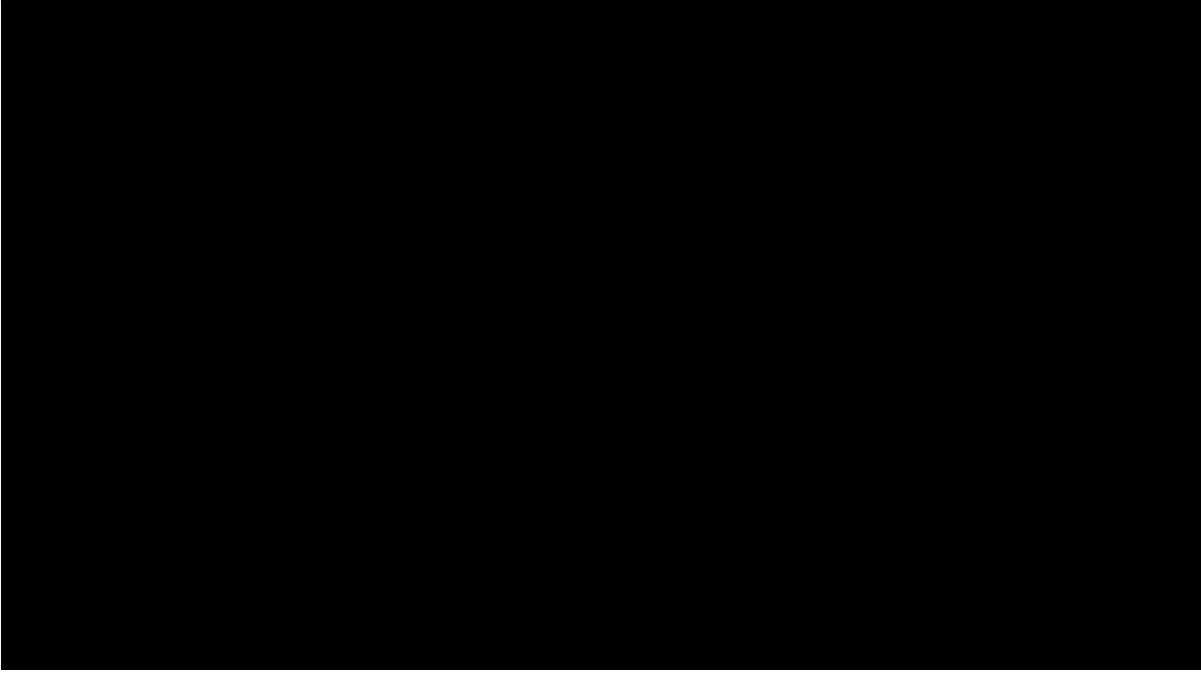
Paying Accounts By Quarter, Excl. Greater China



Paying Accounts By Quarter



Paying Accounts By Quarter



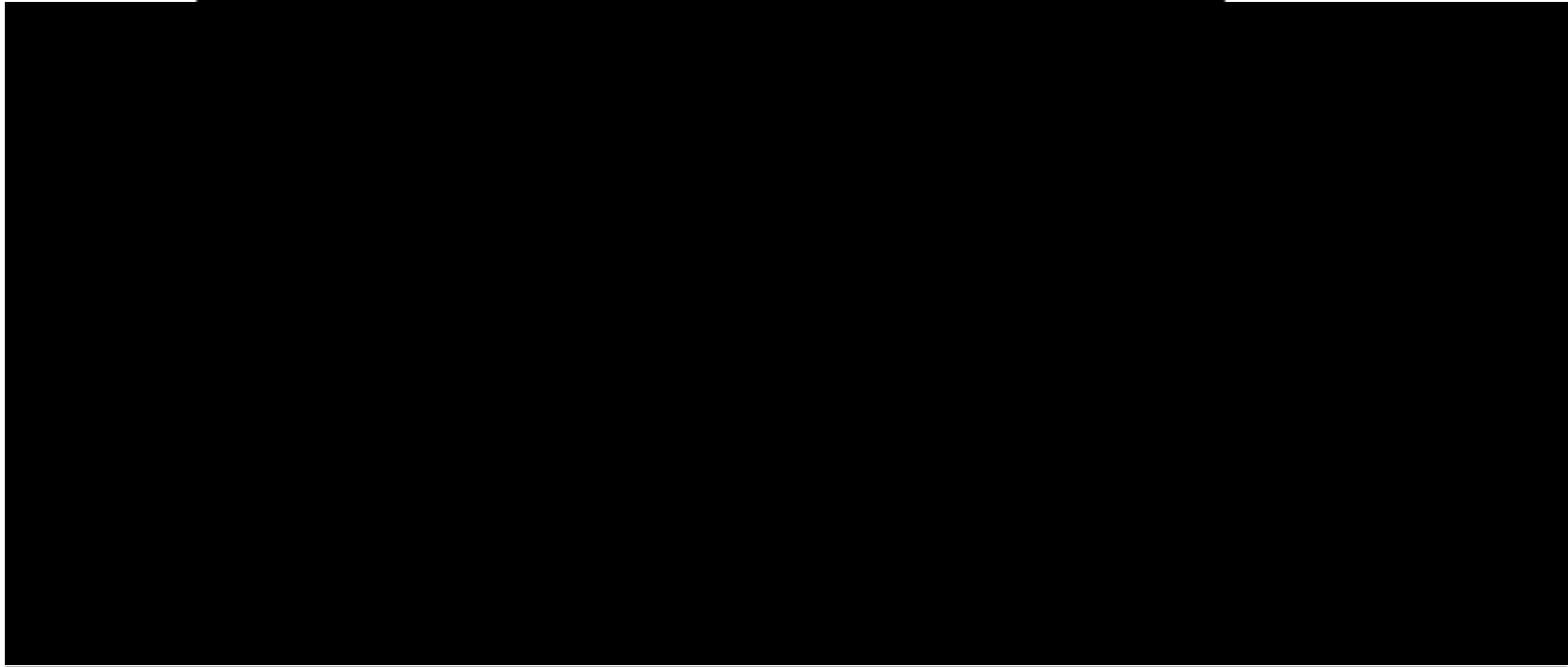
New to Paying Accounts

PX-2176.156

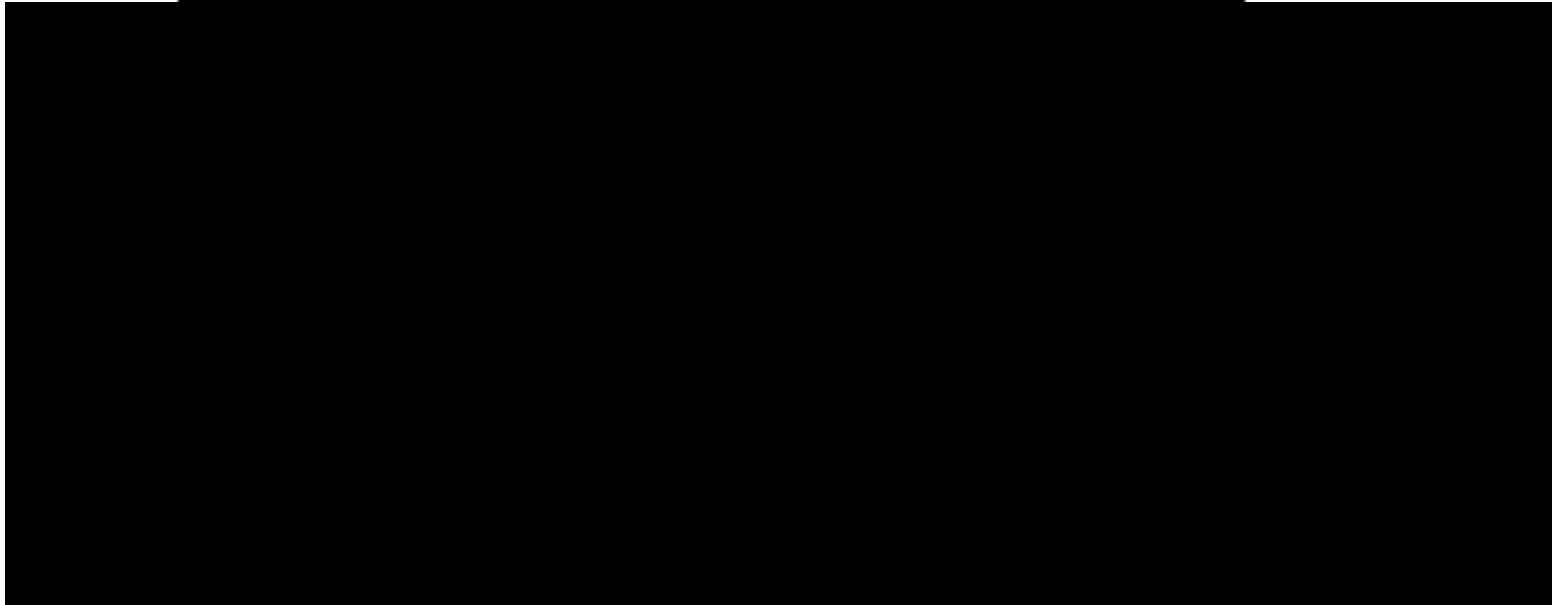
New to Paying Accounts

PX-2176.157

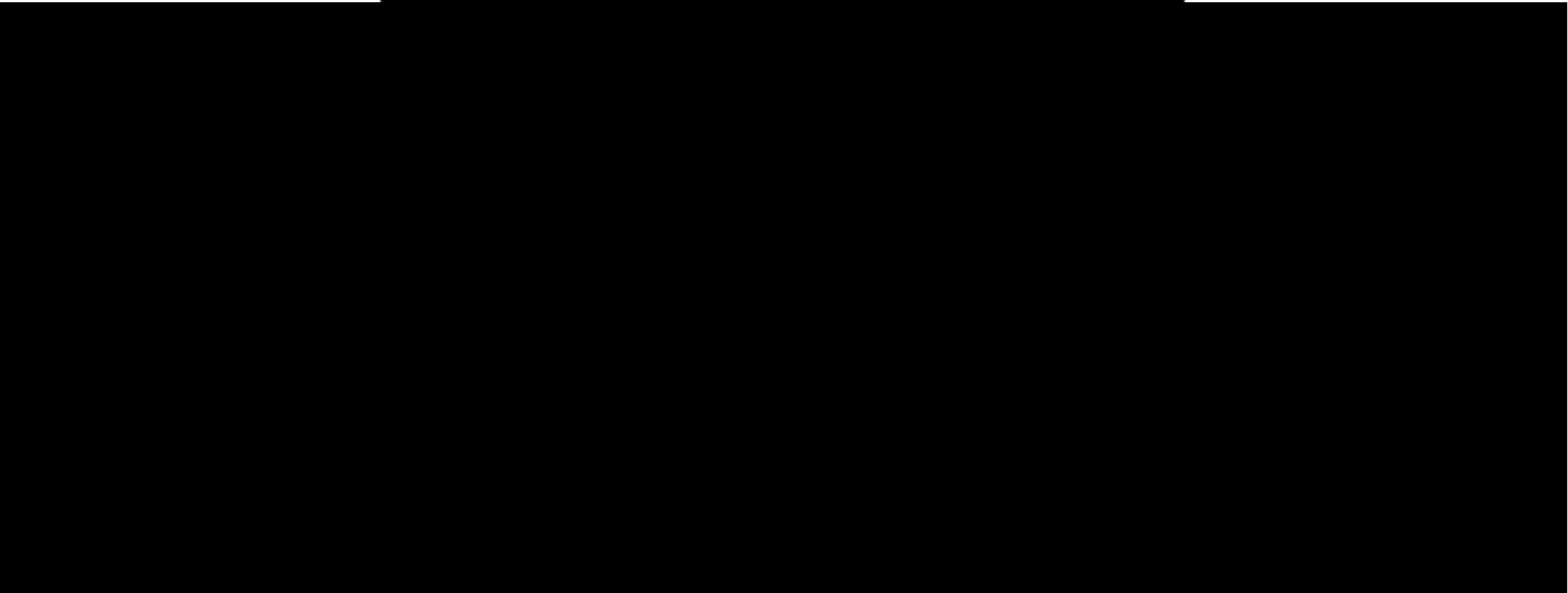
New to Paying Accounts via Alipay



New Payment Method Share of New-to-Paying FYQ3 '17

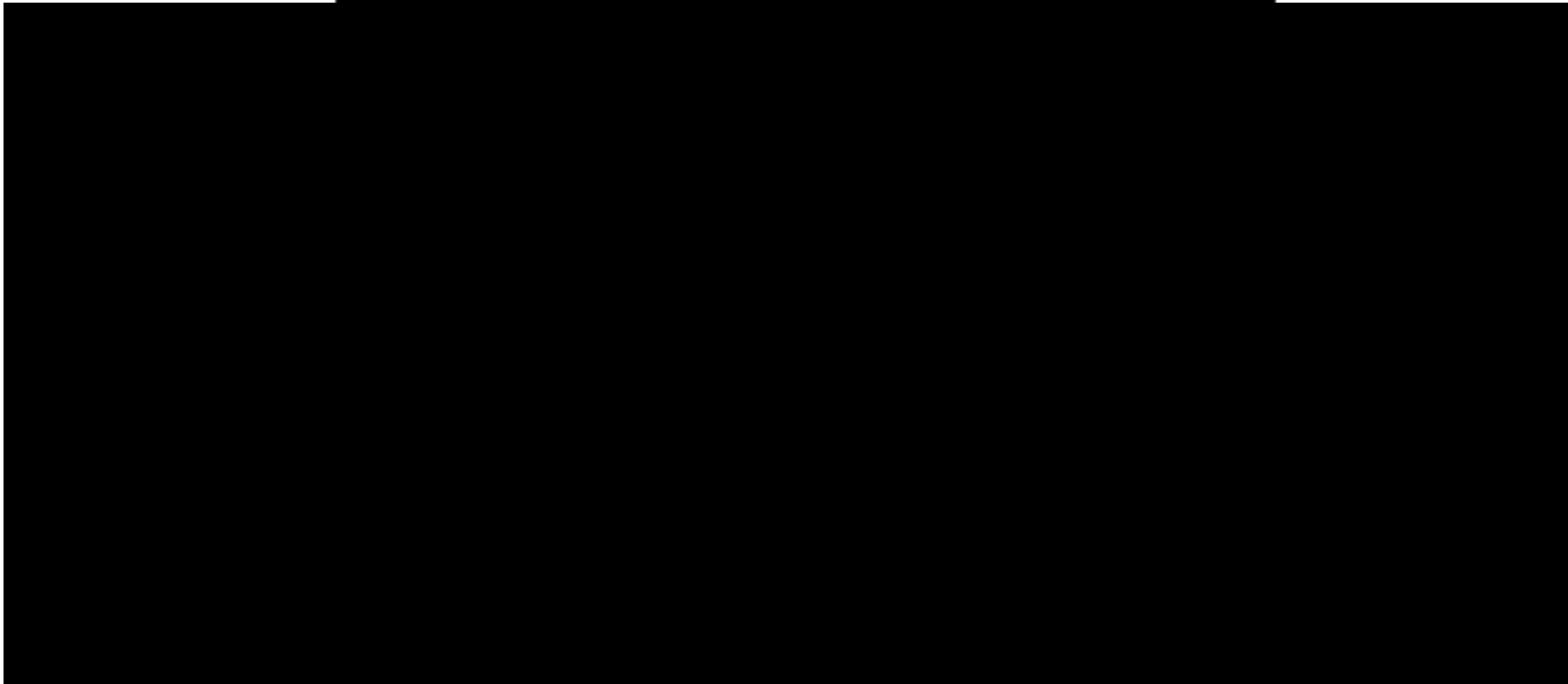


China New to Paying Accounts

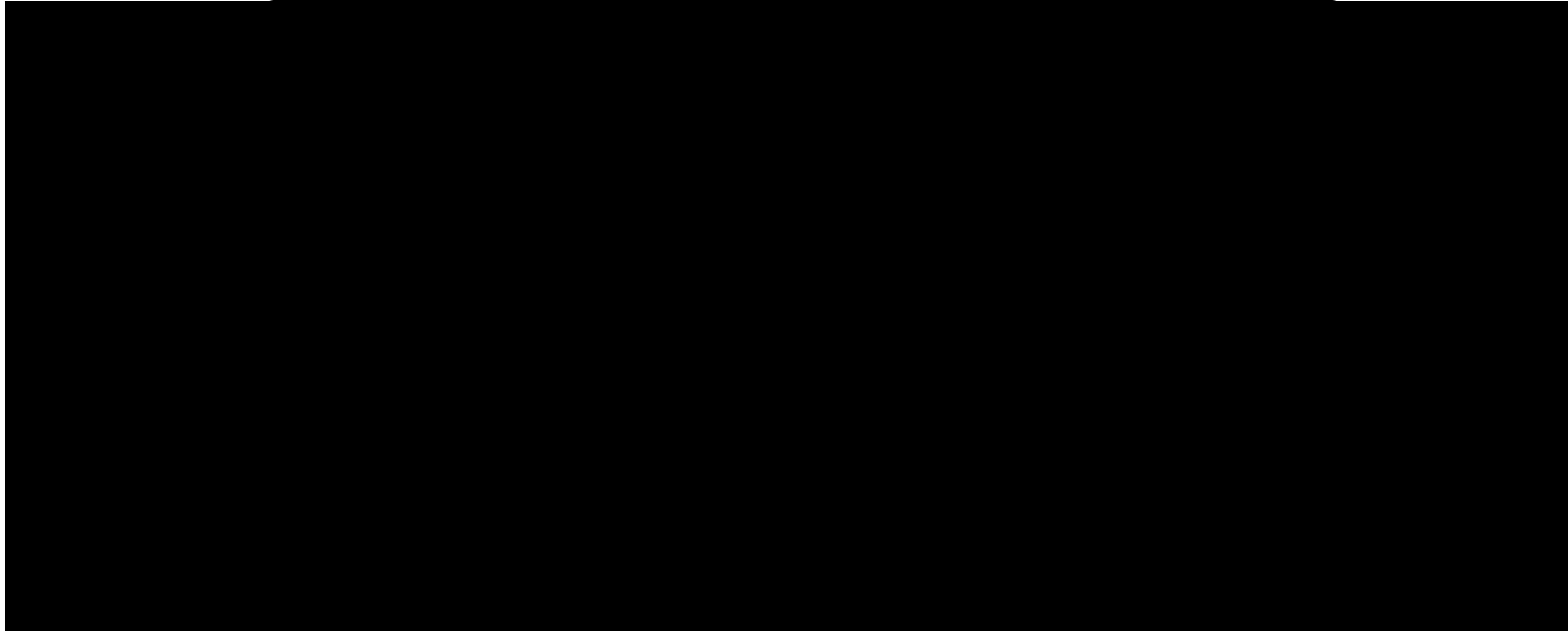


PX-2176.160

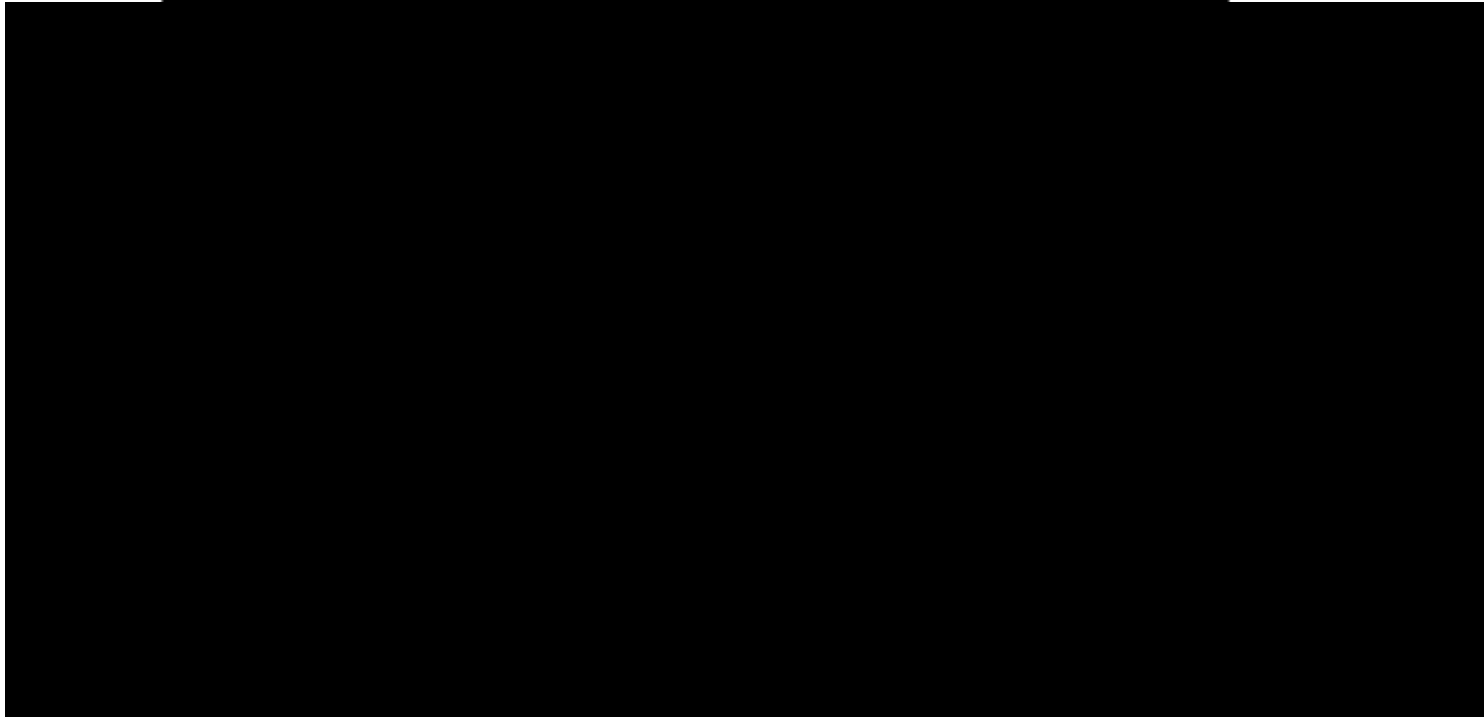
Cross-Border Store Credit Billings Trend



Subscriptions



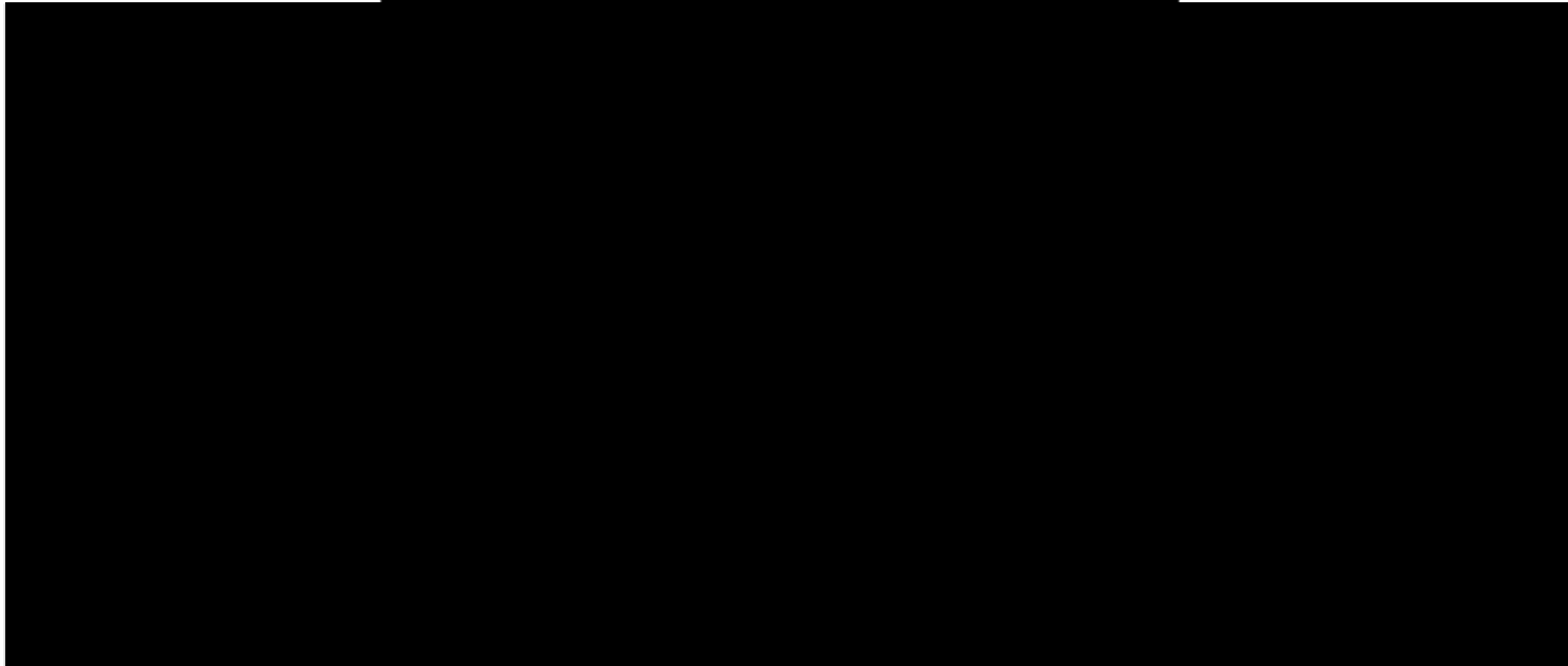
Subscriptions Billings excl. Spotify



Billings per Paying Account

PX-2176.164

Billings per Paying Account by Type



Paying Accounts Growth By Spend Segment

PX-2176.166

Billings per Paying Account

PX-2176.167

Top Downloaded Apps Past 4 Quarters

Pokémon GO



YouTube



Messenger



Instagram



Facebook



Bitmoji



Super Mario Run



WhatsApp



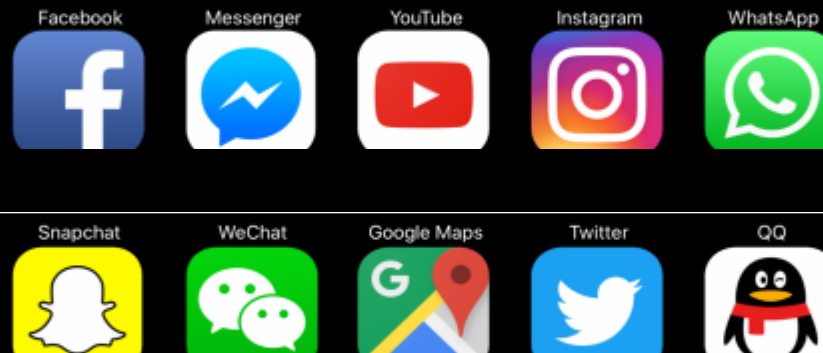
Google Maps



Snapchat



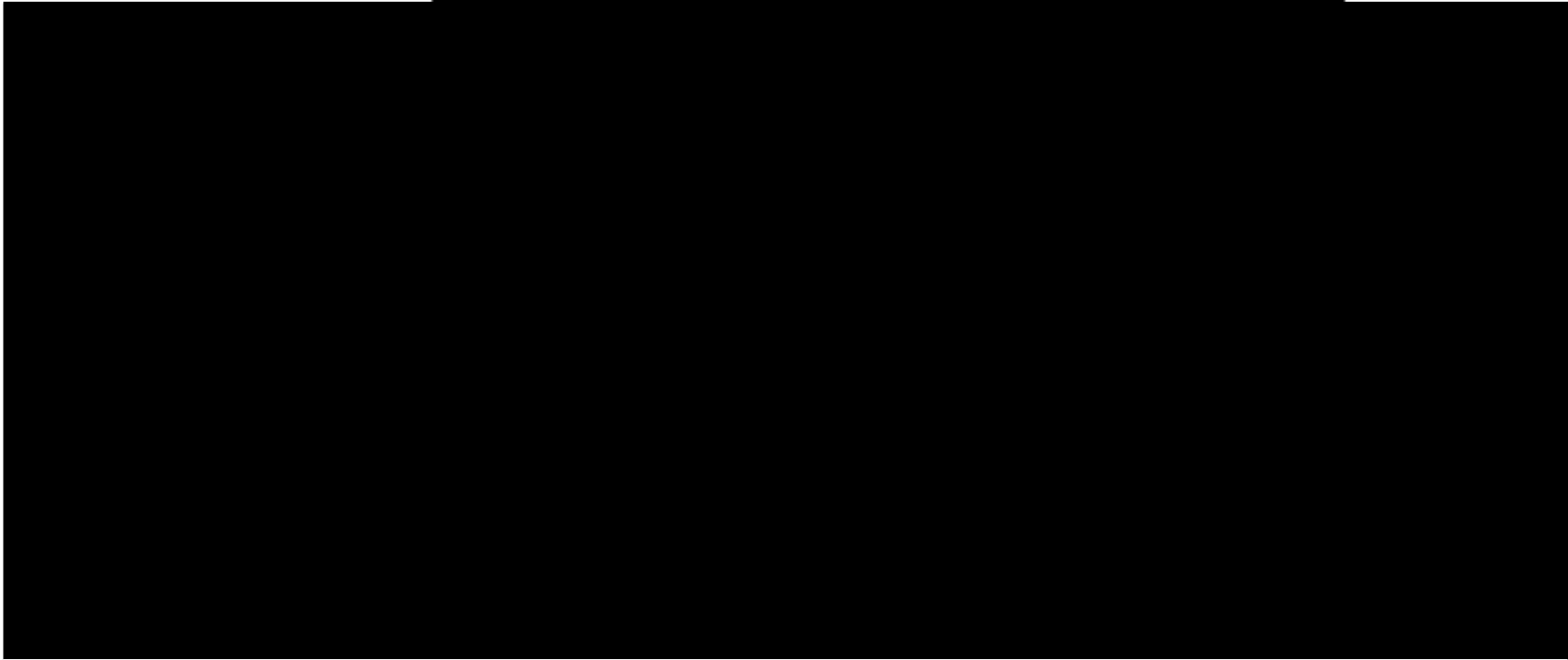
Top 3rd Party Apps by % of Devices, iPhone



Based on 10% opt-in iPhone devices with iOS 8.0 or later from 2017-03-18 to 2017-03-24

- % of weekly devices
- Median Foreground Time Spent per Device (Minutes per Day)

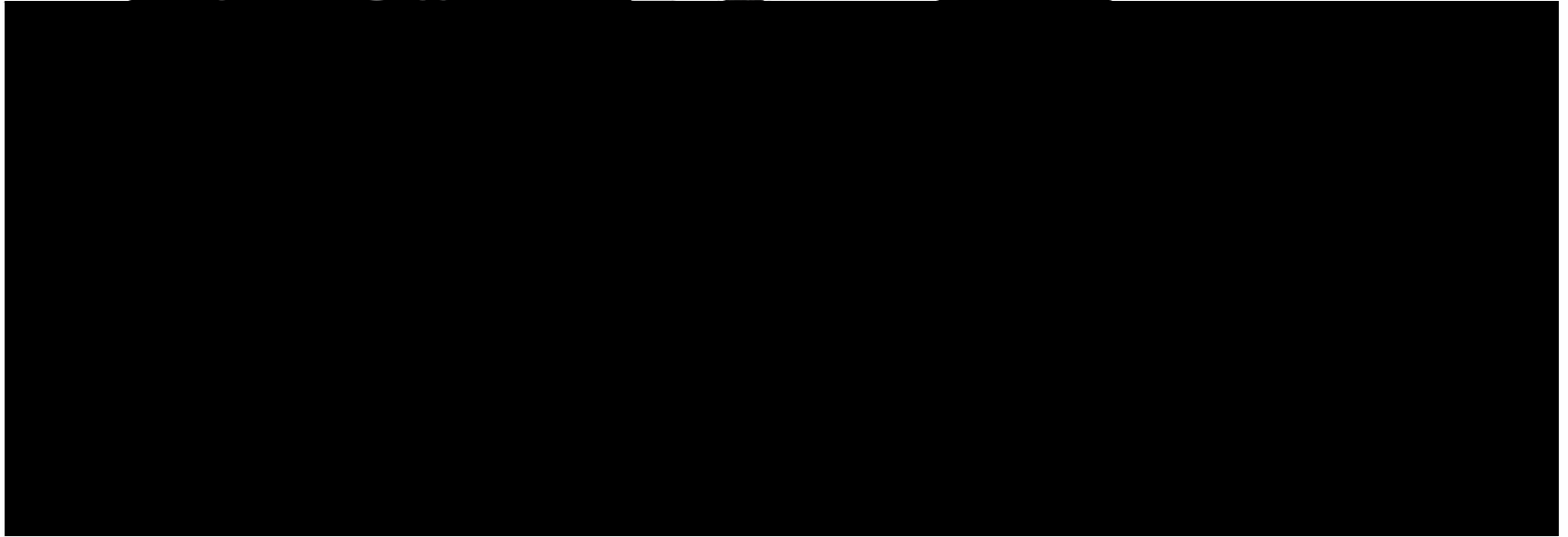
Top Grossing Developers FYQ3 '17



Top Grossing Apps - Q3 '17

Trend

Last 24 Months



PX-2176.171

Top Grossing Apps FYQ3 '17

King of Glory



Monster Strike



Fantasy Westward



Fate/Grand Order



Clash Royale



Candy Crush



Puzzle & Dragons



Netflix



Onmyoji



Dragon Valley



Top Grossing Non-Games FYQ3 '17



Games Subscription Service Appendix

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PX-2176.174

Relationship to Existing Games Business

Before we go any further, let's take a look at the relationship of our proposed service to our existing games business, which we know is important to Apple.

Game spend is highly concentrated



Internal, WW games customers, 2016

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- This brings us to the meat of the discussion, which is our analysis of cannibalization.
- Of the 481M games customers that spent on the store last year, 6% generated more than 88% of the total App Store billings. This means the average user in this 6% spent over \$750 a year on games.
- (On the other hand, the remaining 111M spending customers spent an average of \$23 a year on games, showcasing the massive opportunity for a subscription offering that would generate over \$70 per subscriber each year.)
- When considering the risk of cannibalization, we need to primarily consider how this service would impact the engagement and spend of this 6%.

Spend Segment ARPPU

- High:
- Med-High:
- Med:
- Med-Low:
- Low:

Note: 481M games transacting customers is based on the 2015 number because the 2016 contains significant fraud issues.

These 6% seek three experiences

1. Deep, continuously expanding gameplay
2. Building community
3. Accumulating and protecting elite status

"Why do players buy in-game content? An empirical study on concrete purchase motivations." *Computers in Human Behavior* 68 (2017)

123

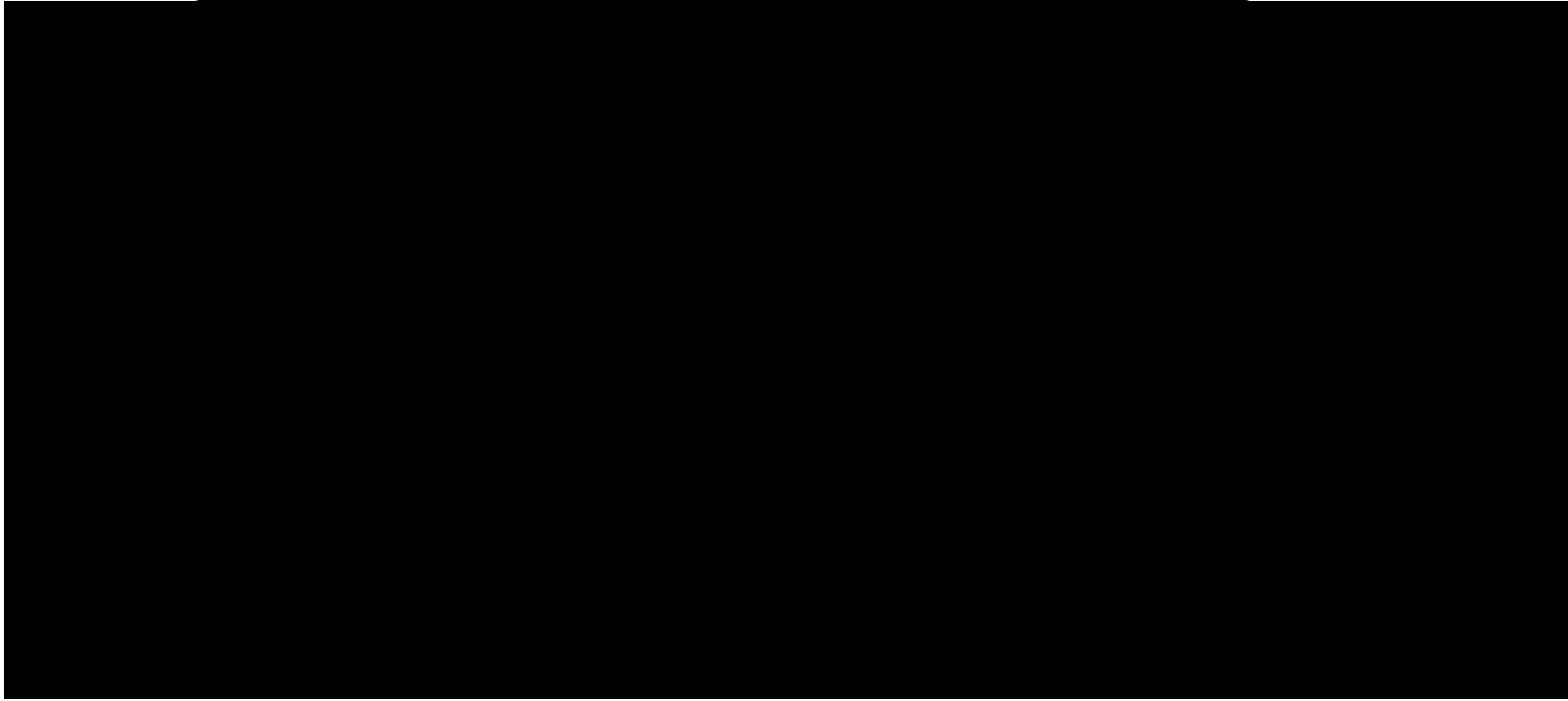
- Freemium games offer the ideal playing experience for this small segment of high spending customers.
- Freemium games offer these players deep and continuously expanding gameplay and allowing these users to spend years playing in the same game without losing interest. Freemium developers also leverage limited time events, like tournaments, to inspire competition and encourage players to stay heavily engaged.
- Freemium games allow users to establish anonymous personas (or avatars) within the game and build deep in-game communities through these personas. Within most freemium games, community integration and support is essential to competing at the highest levels and this sense of community is a major factor in the high engagement and spend of the 6%.
- Freemium games also allow users to accumulate status within the community and game over the course of many years. Accumulating status in these games is a complex and time-intensive process, but that status can provide access to exclusive areas and communities, making it highly valued by the 6%. However, status is usually difficult to maintain in live service games, so elite players will readily spend to protect their status.

Subscription won't satisfy the 6%

Spend motivations	Features	Freemium	Subscription
Deep, continuously expanding gameplay	Rich world with endless gameplay	✓	✗
	Limited time/special events	✓	✗
	In-game persona/avatar	✓	✗
Building community	Gifting and community support	✓	✗
	High value of cooperation	✓	✗
	Anonymous multiplayer	✓	✗
Accumulating and protecting elite status	Difficult to maintain status	✓	✗


- Here is a list of features which are essential to the high spender experience in freemium games that will not be available in the games subscription service.
- Freemium games provide never-ending gameplay for users, allowing for deep and limitless play. All the games in the subscription service would all be winnable or time-limited, meaning that users beat them and move on to the next title.
- Freemium games use limited time events and offers to re-engage high value customers and encourage them to spend more. The games in the service wouldn't be able to offer in-app events or offers, allowing customers to play at their leisure.
- Freemium games allow users to create anonymous in-game personas/avatars and build deep communities with other anonymous players in the game. The subscription service wouldn't allow for in-game personas or anonymous multiplayer – players would leverage their real social graph via iMessage for social sharing, but the gameplay itself would be largely single player.
- Likewise, freemium games place a high value cooperation, gifting and support for members of the in-game communities. The games in the service would be largely single player, and any available multiplayer support would be focused on competition rather than cooperation and support.
- Freemium games make it difficult to maintain status within a game. The games in our service would focus on tangible in-game achievements – such as tasks completed and levels won – and these achievements wouldn't disappear or lose value over time.

We will ensure differentiation



PX-2176.179

Premium games do not cannibalize freemium



Freemium developers agree

"[Hatch] is aimed solely at premium games with no IAPs, i.e., mainly games with gameplay types and genres that are not as well suited to free-to-play. So it's positioned more as an alternative discovery platform and source of income for (indie) premium game developers. As such, we don't see it having a big impact on our own business."

Ilkka Paananen, CEO, Supercell

Financial Projections

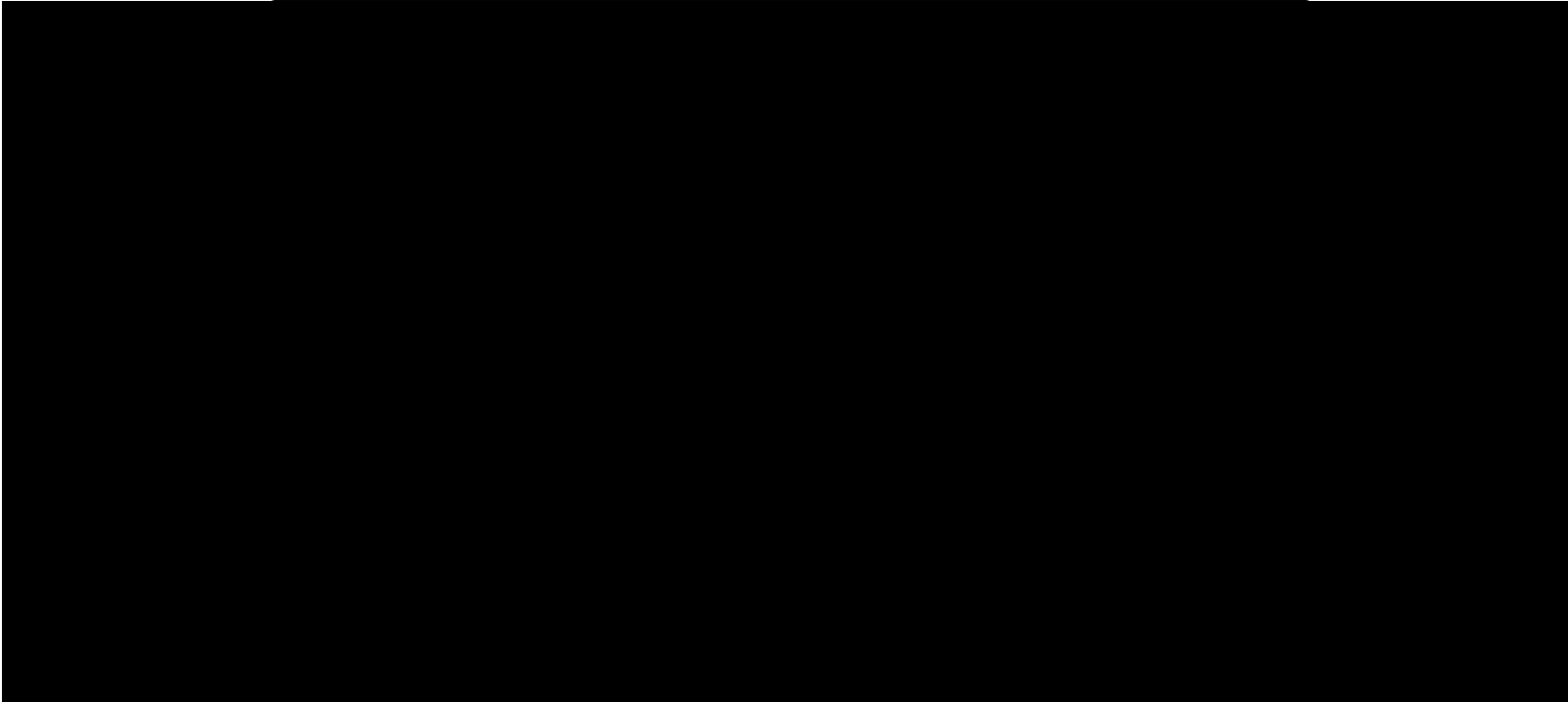
182

PX-2176.182

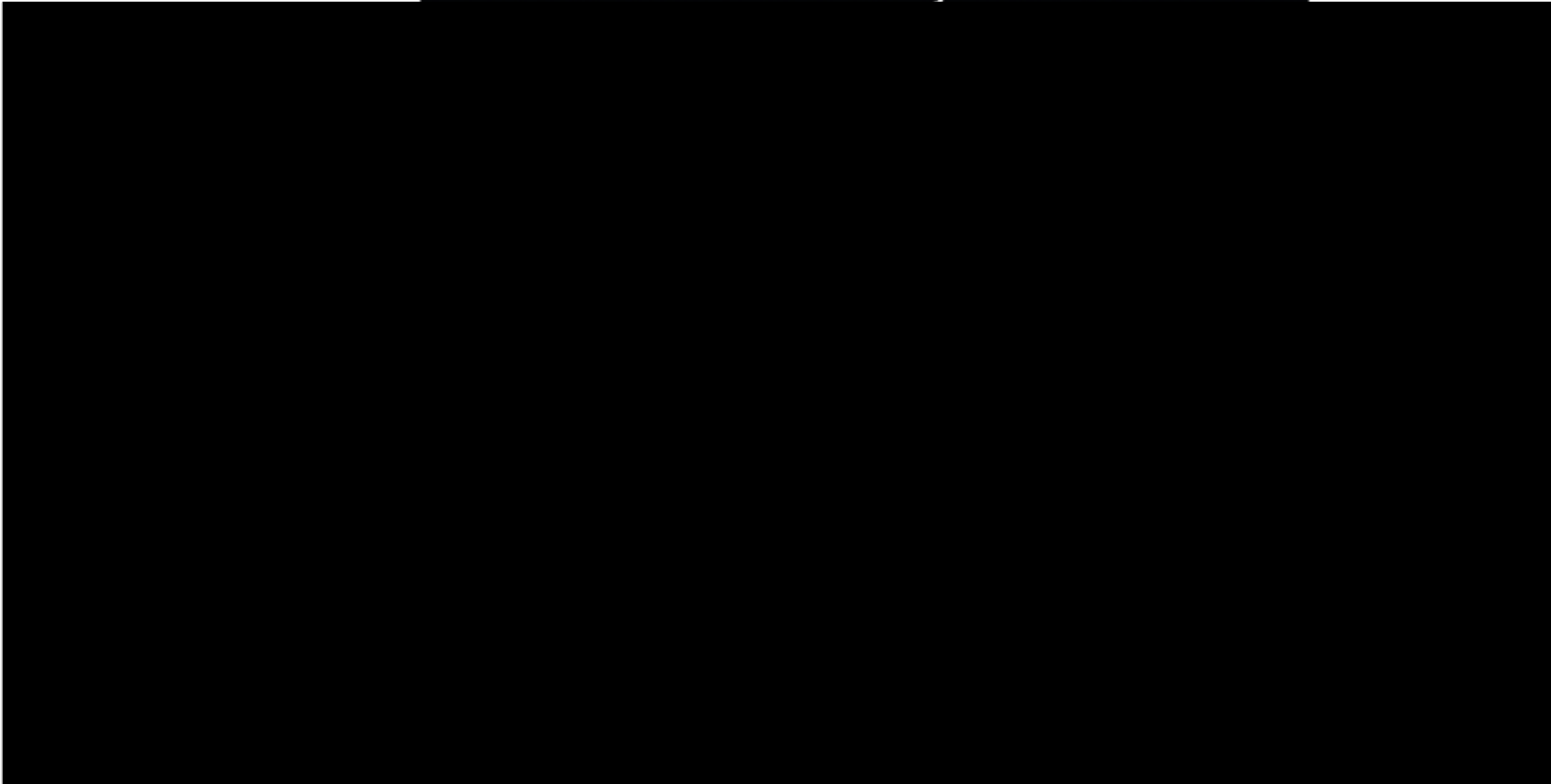
Subscription assumptions

PX-2176.185

Content Costs

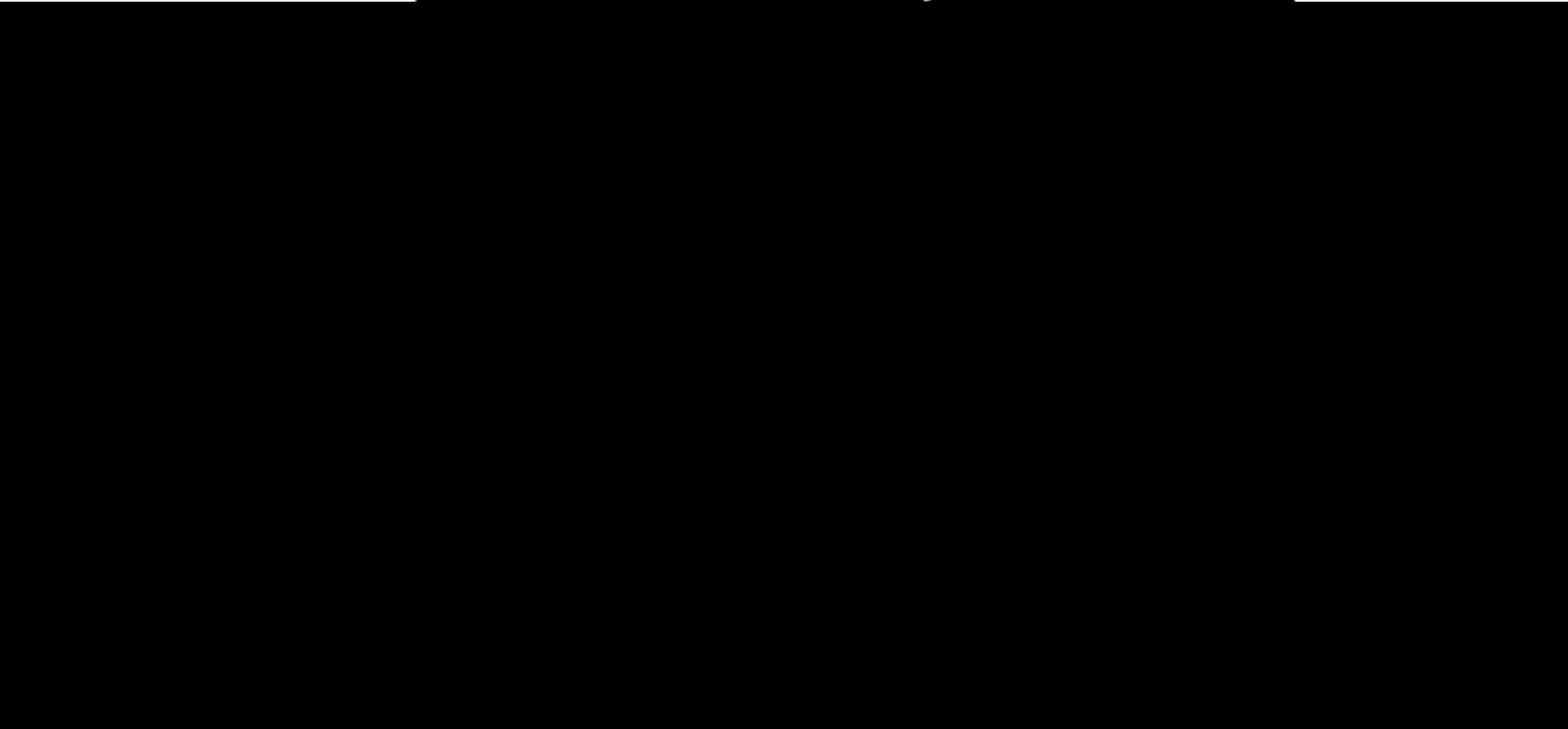


Financial Projection



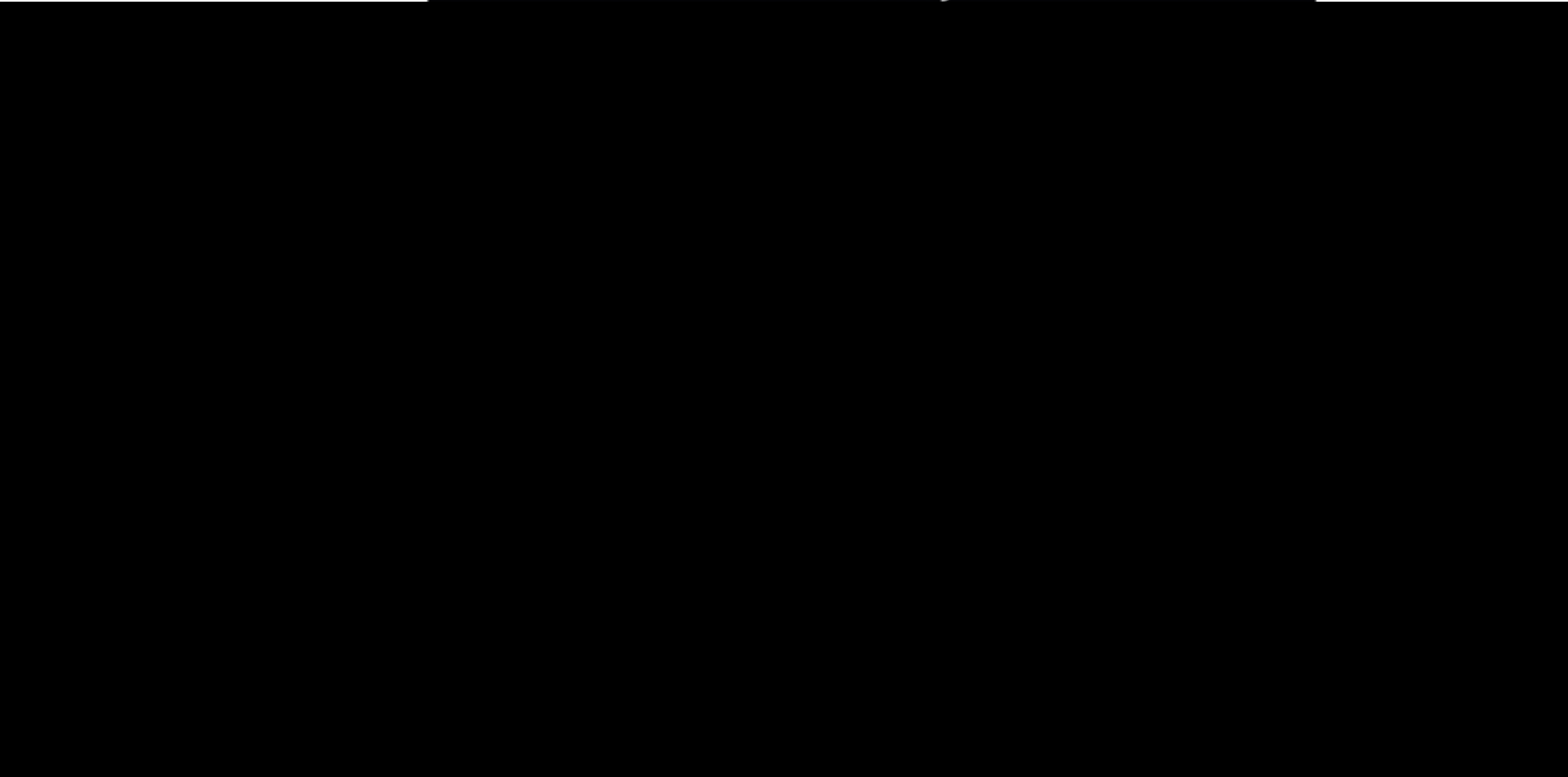
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Financial Projection




PX-2176.188

Financial Projection

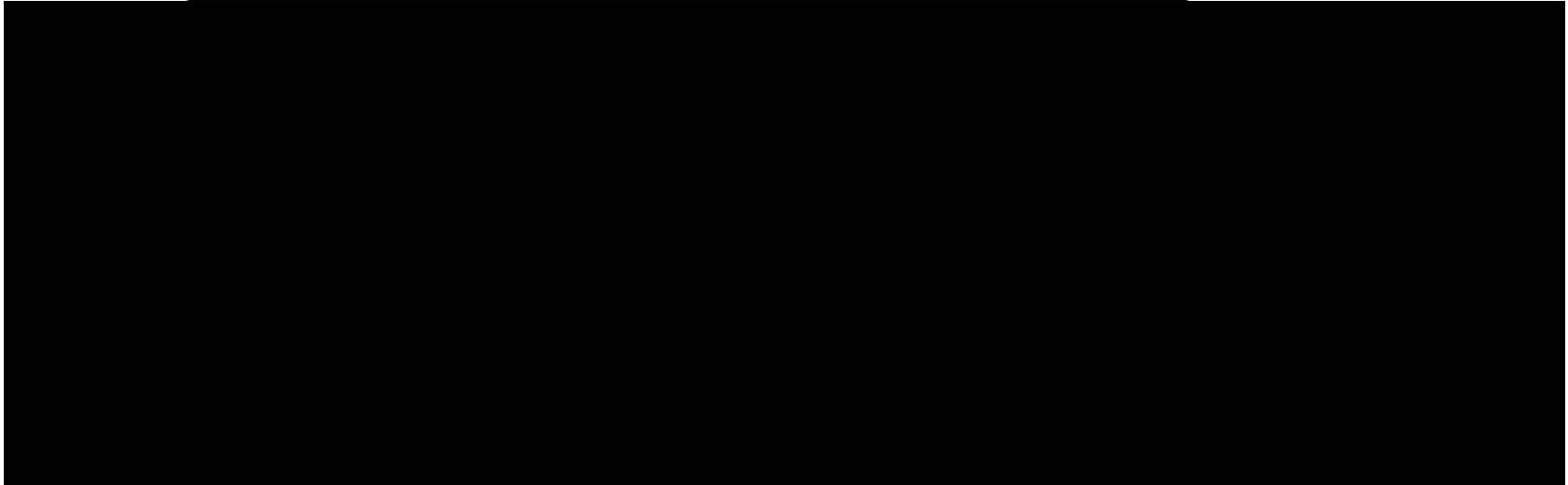


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Financial Projection



Headcount to launch



Summary

Great experience for 280 million iOS gamers

Sustainable model for premium developers

Supports iPhone, iPad, AR/VR, etc.

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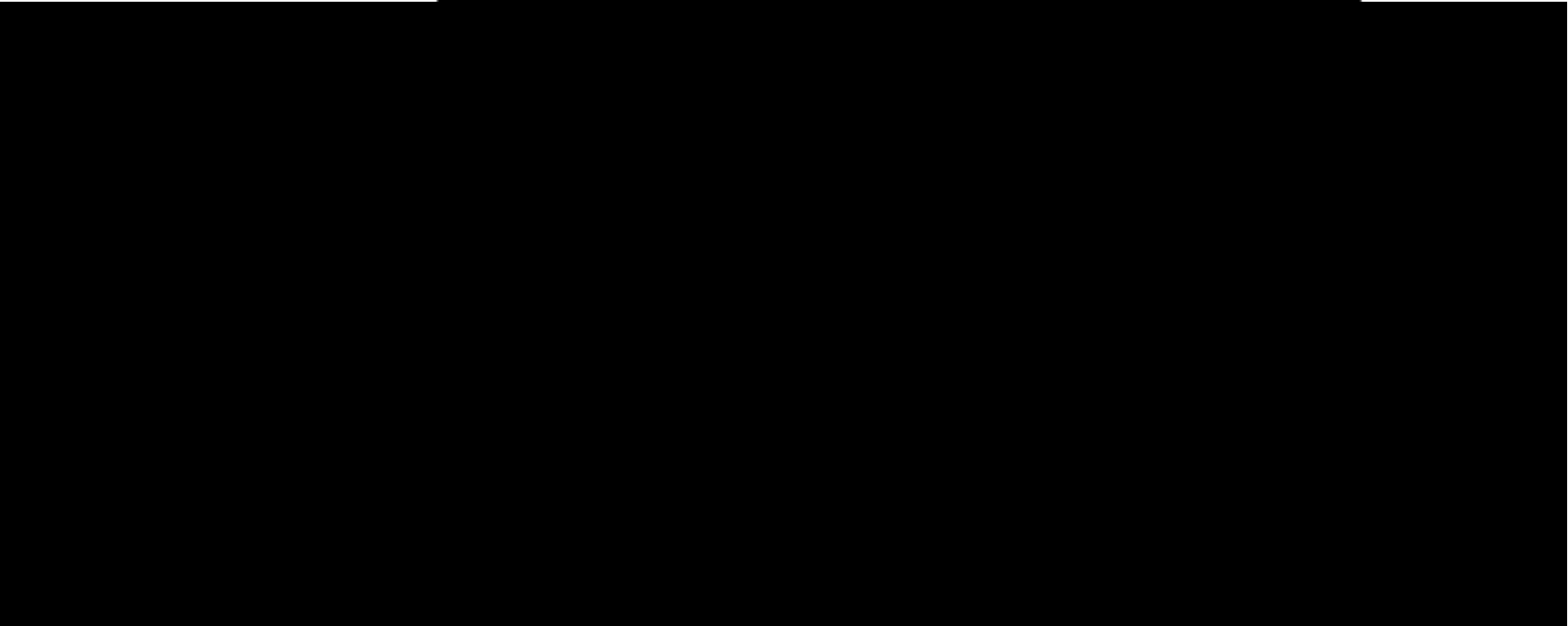


Personalization Impact Appendix

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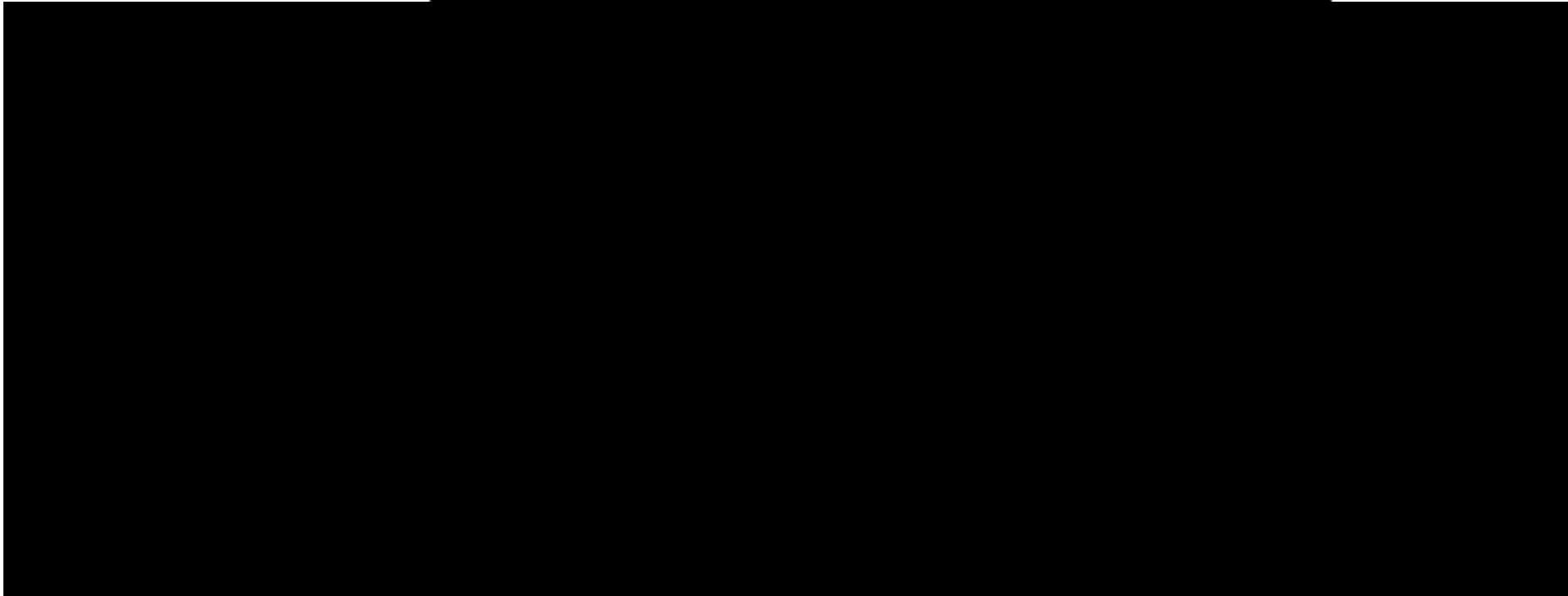
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Observed Values
Featured Games & Apps

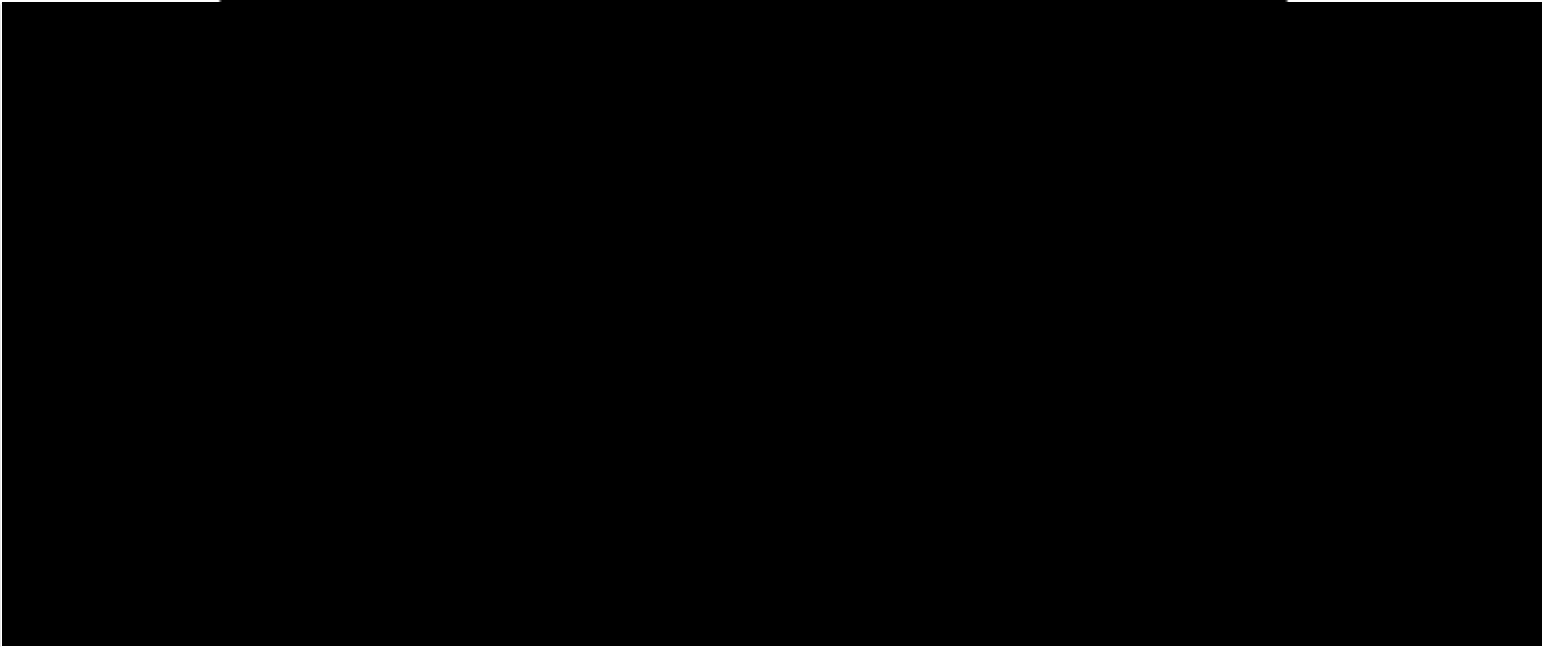


Featured Content Clicks

Apps Main Featured Content Clicks

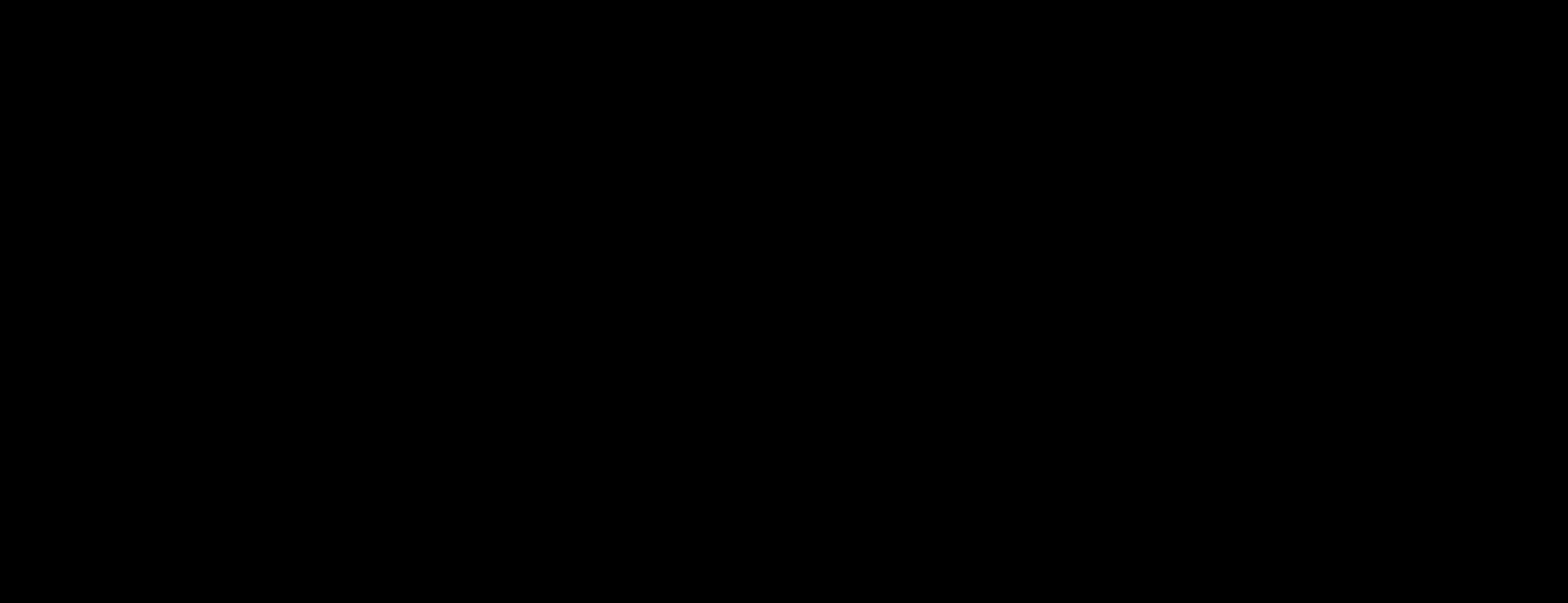


Apps Main Featured Content Downloads



Featured vs Referrals LTV

Potential Business Impact

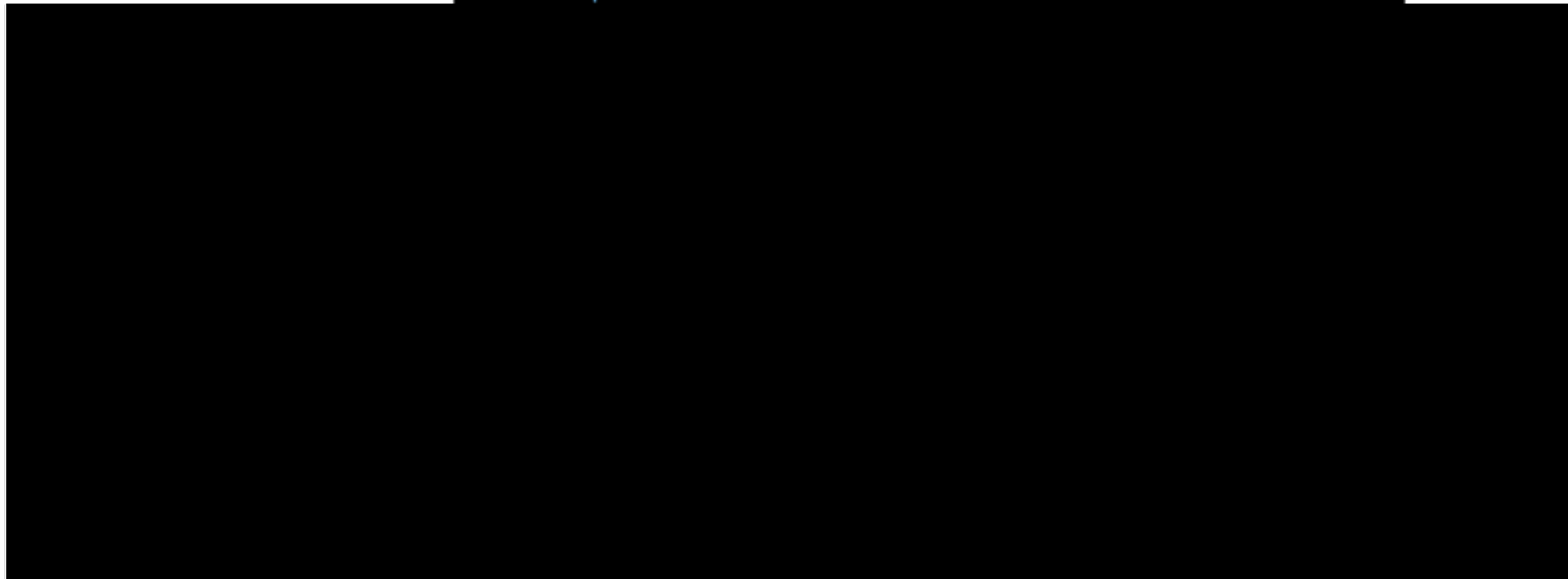


Customer Engagement Appendix

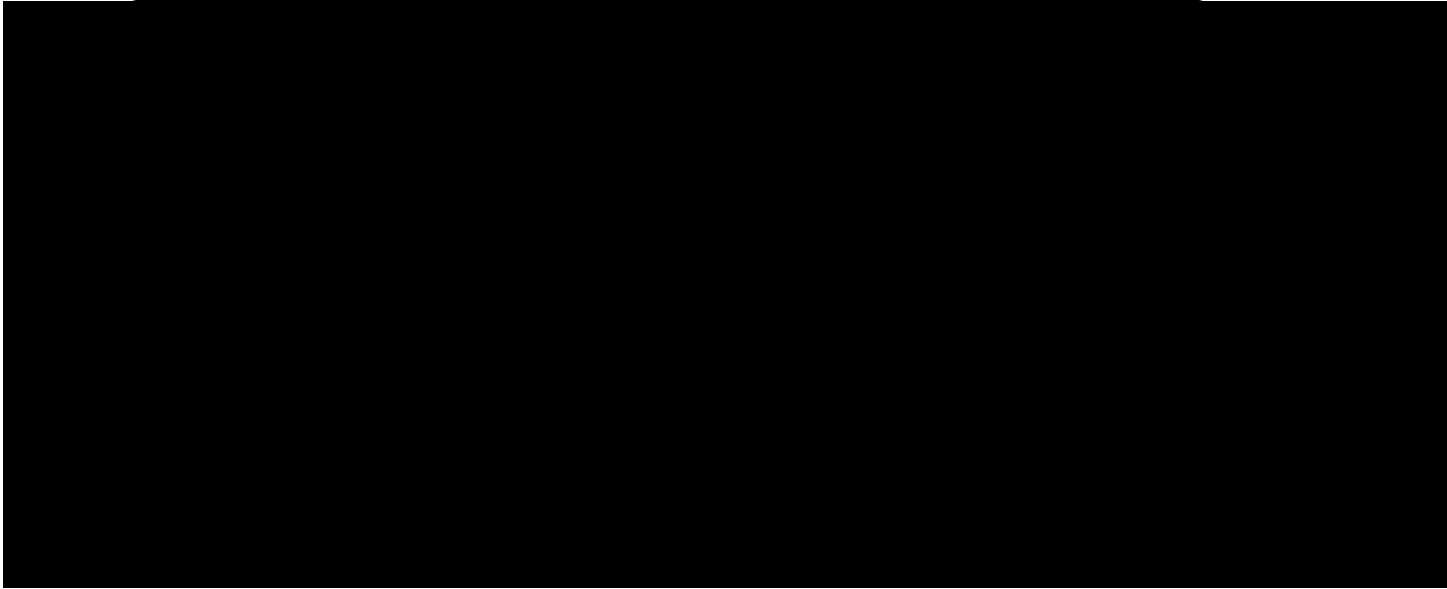
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App Store Benefit
Assumptions



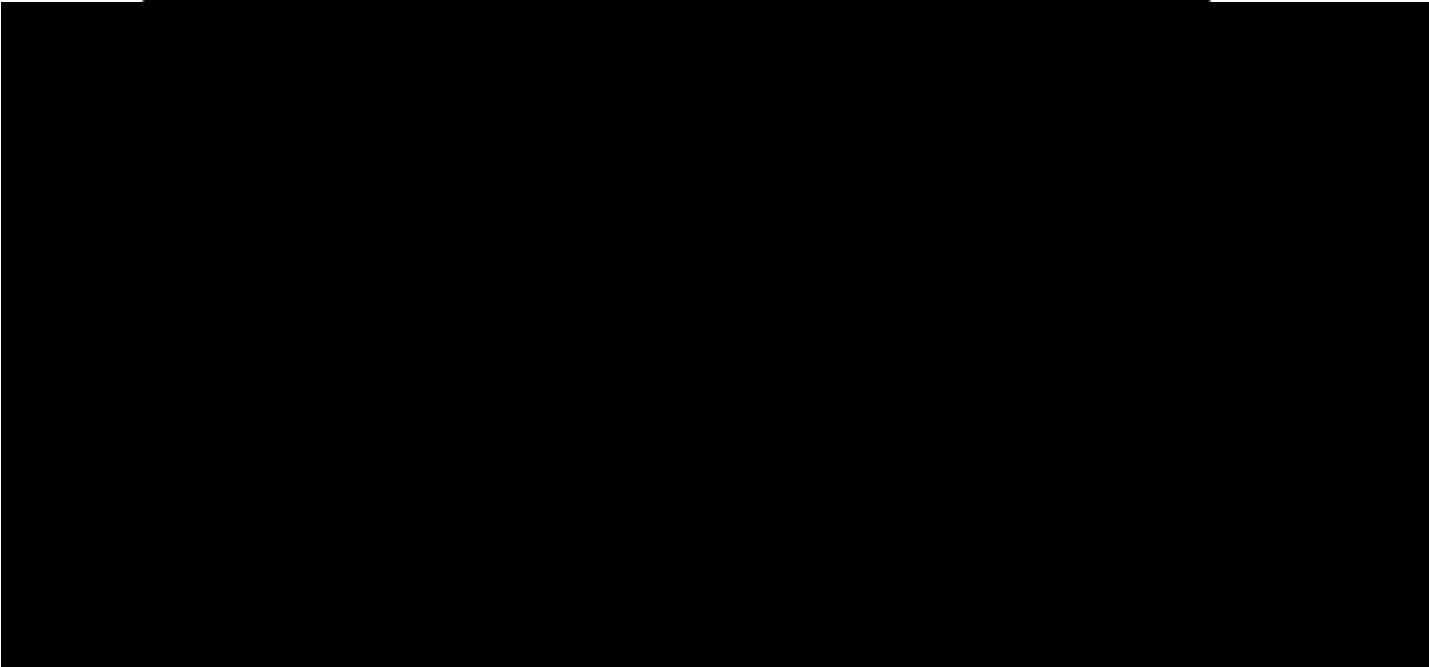
Customer Journey - Many Paths Exist



App Store - Year 1 Benefit

PX-2176.203

Anaytics and PM ask



PX-2176.204

Services attach drive spend

PX-2176.205

CRM Capabilities Rollout FY'18

2176.206

CRM Headcount Needs FY18

WORKSHEET

Enhanced Analytics Appendix

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Global Customer Experience

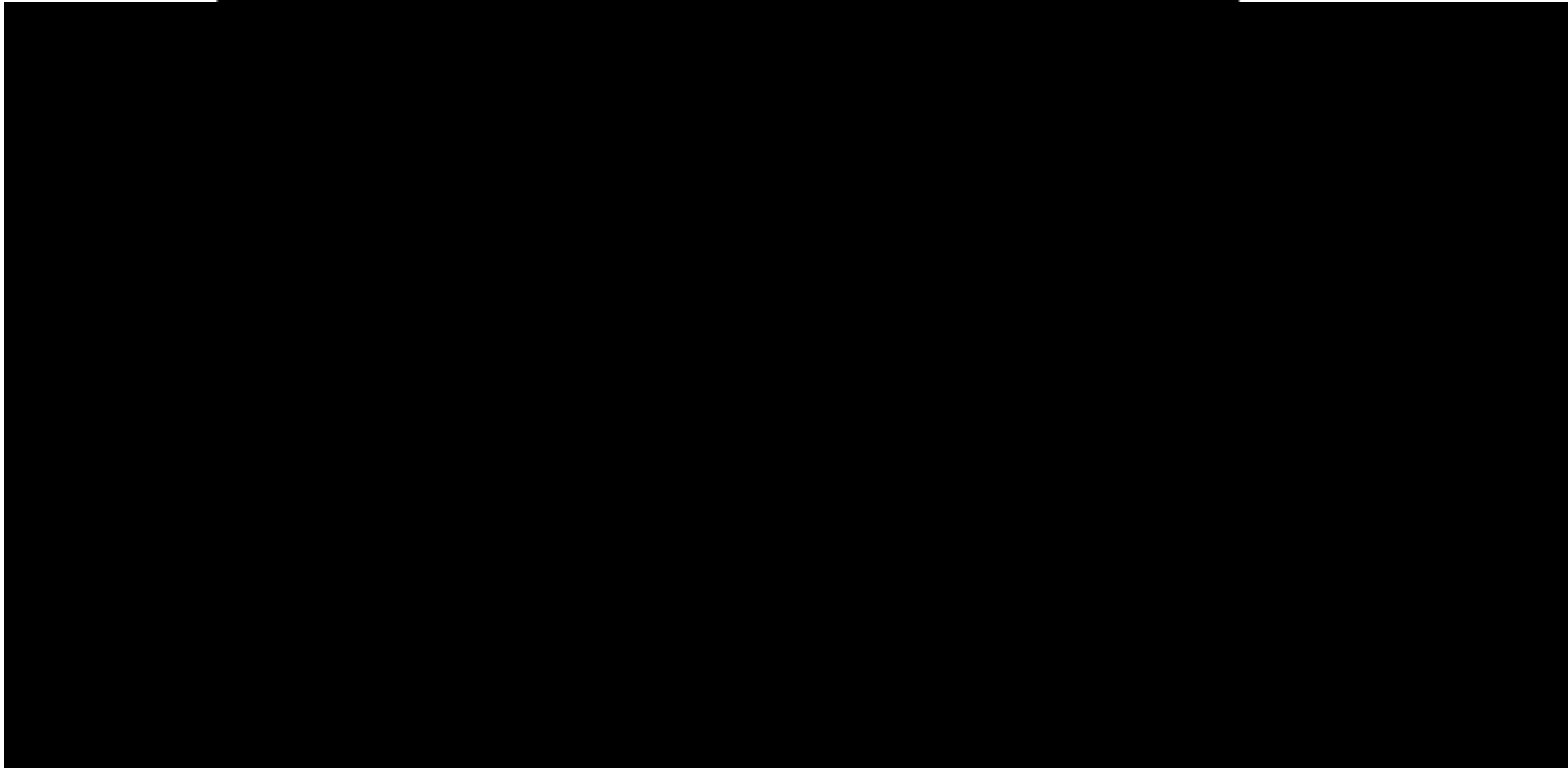
PX-2176.209

Finance Appendix

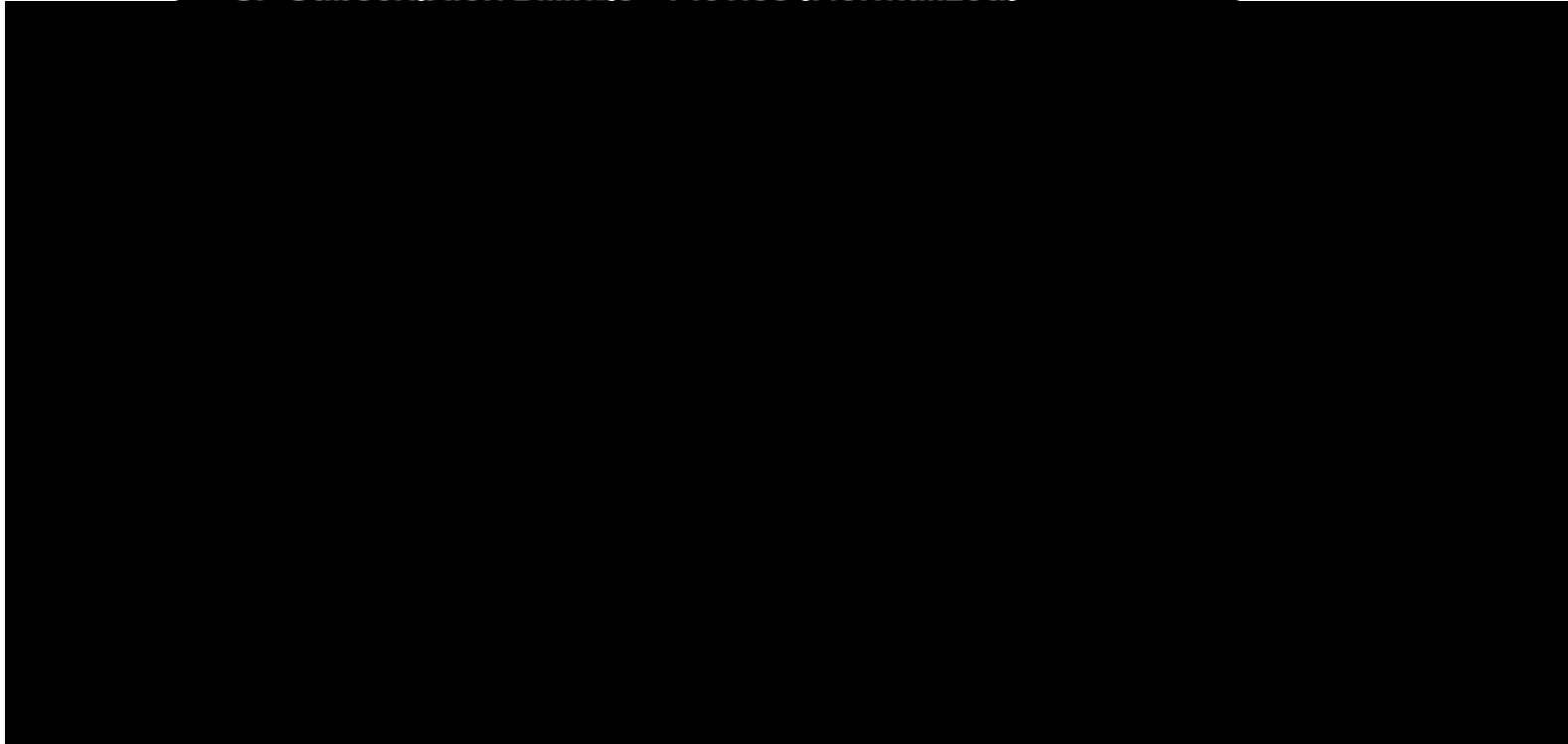
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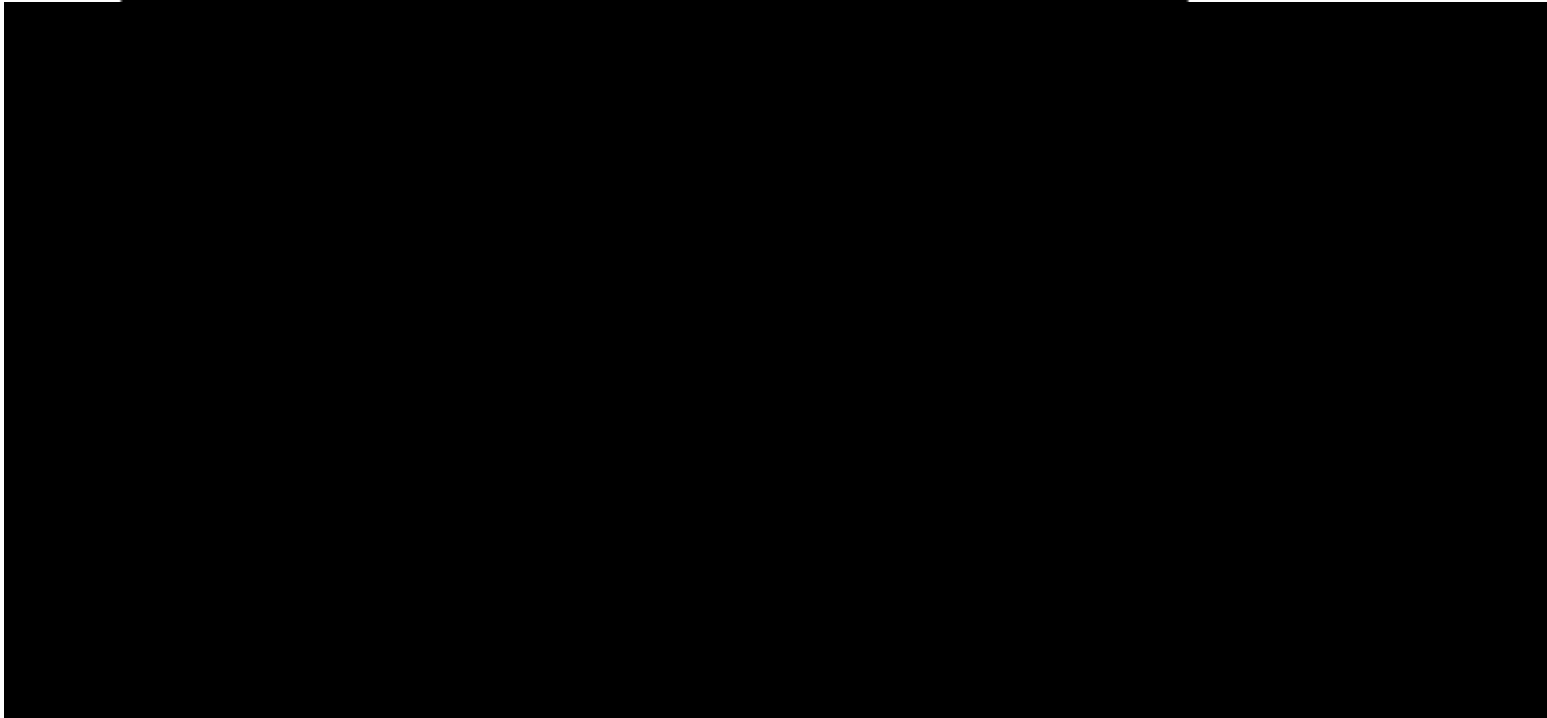
3P Subscription Billings (Normalized)



3P Subscription Billings - Movies (Normalized)



3P Subscription Billings- Music (Normalized)

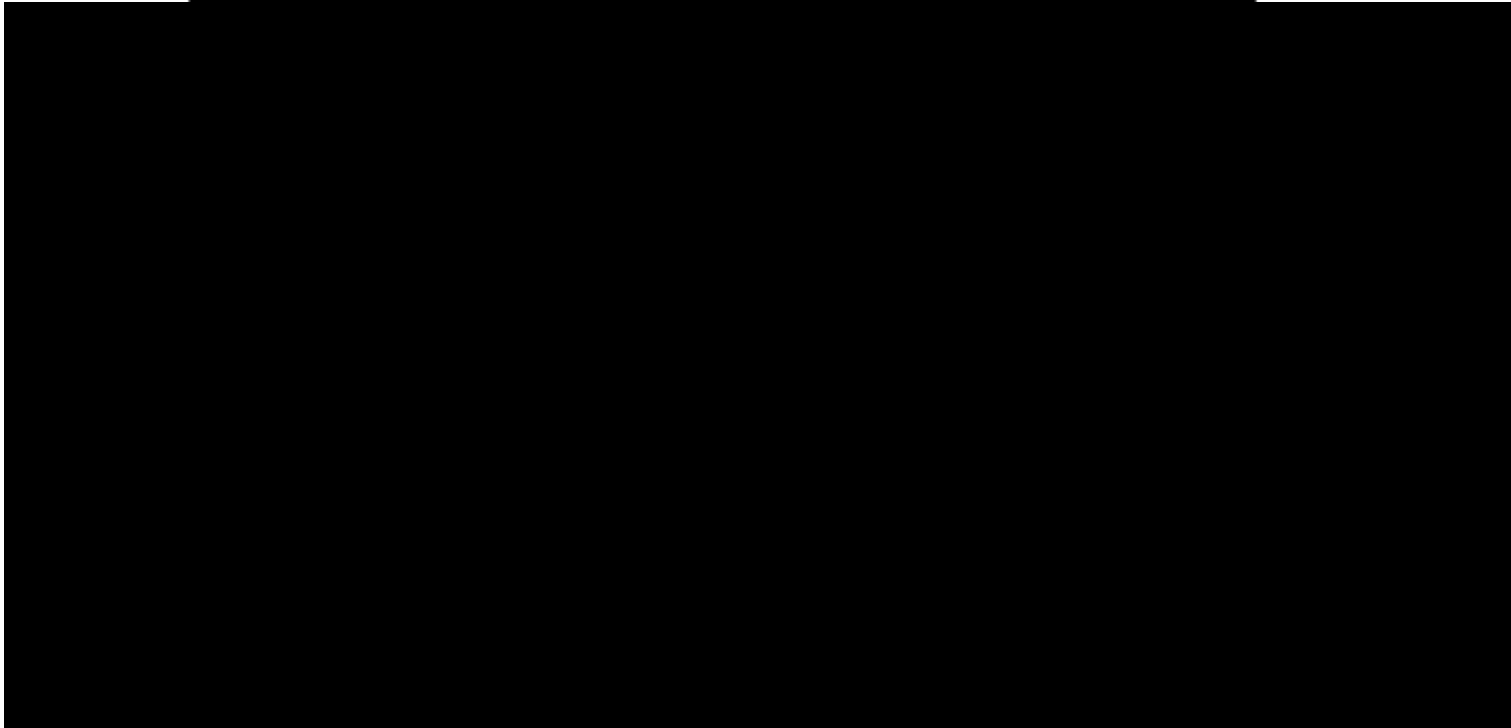


Spotify

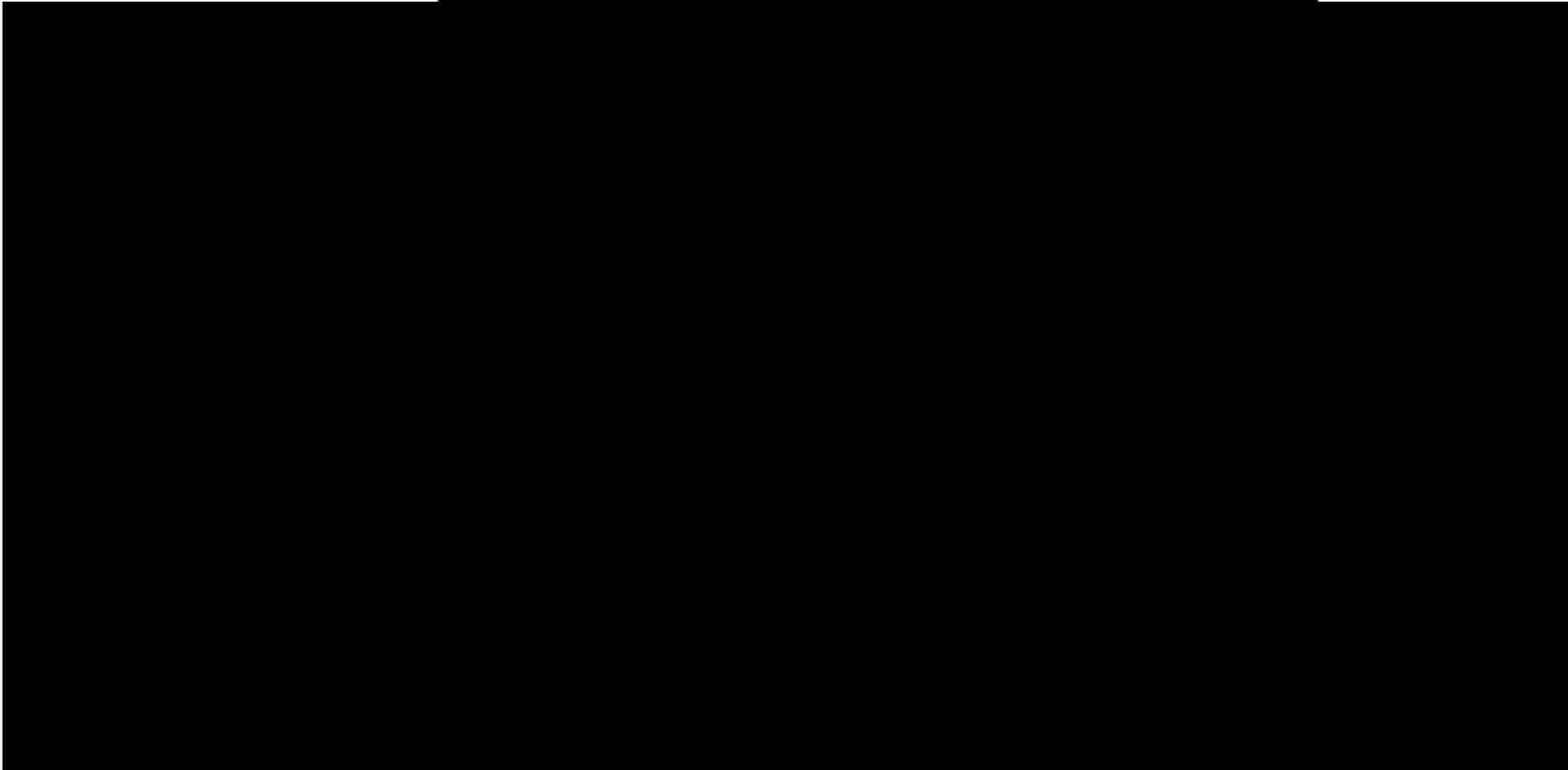


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3P Subscription Billings Bridge (Normalized)

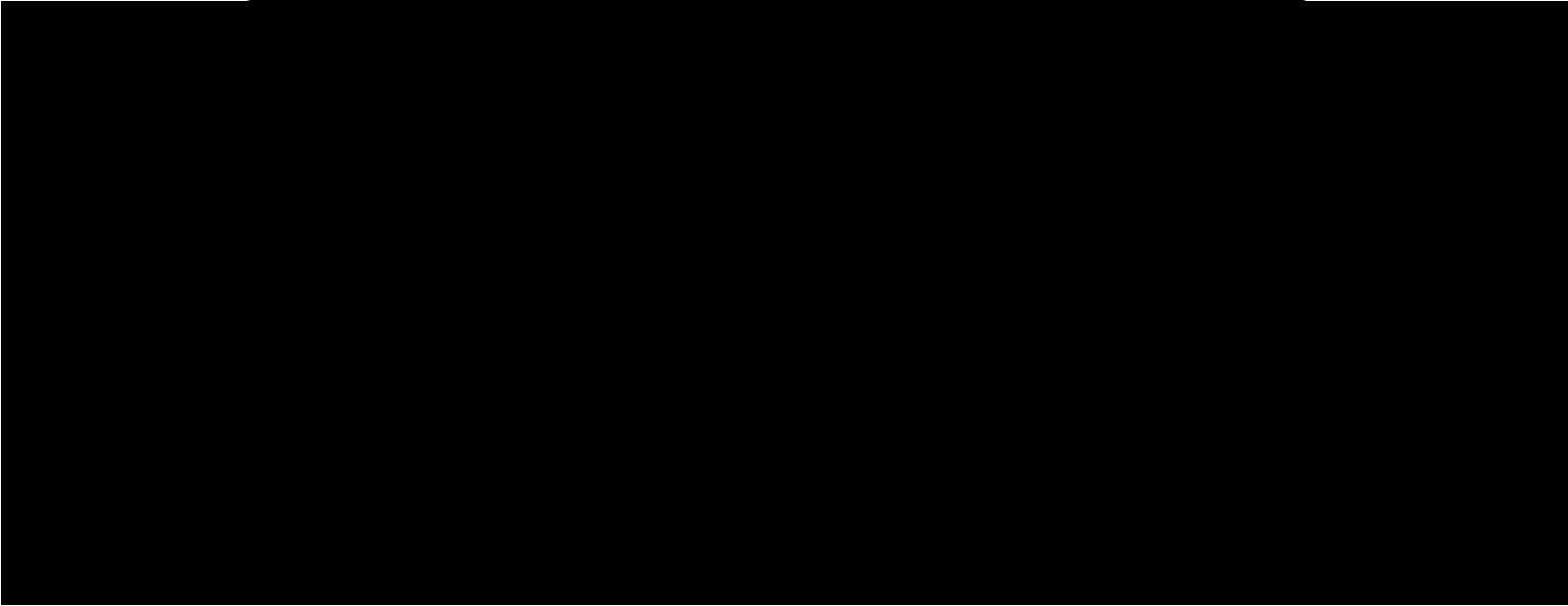


App Store Billings by Region (Normalized)



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FY'17 Plan Comparison

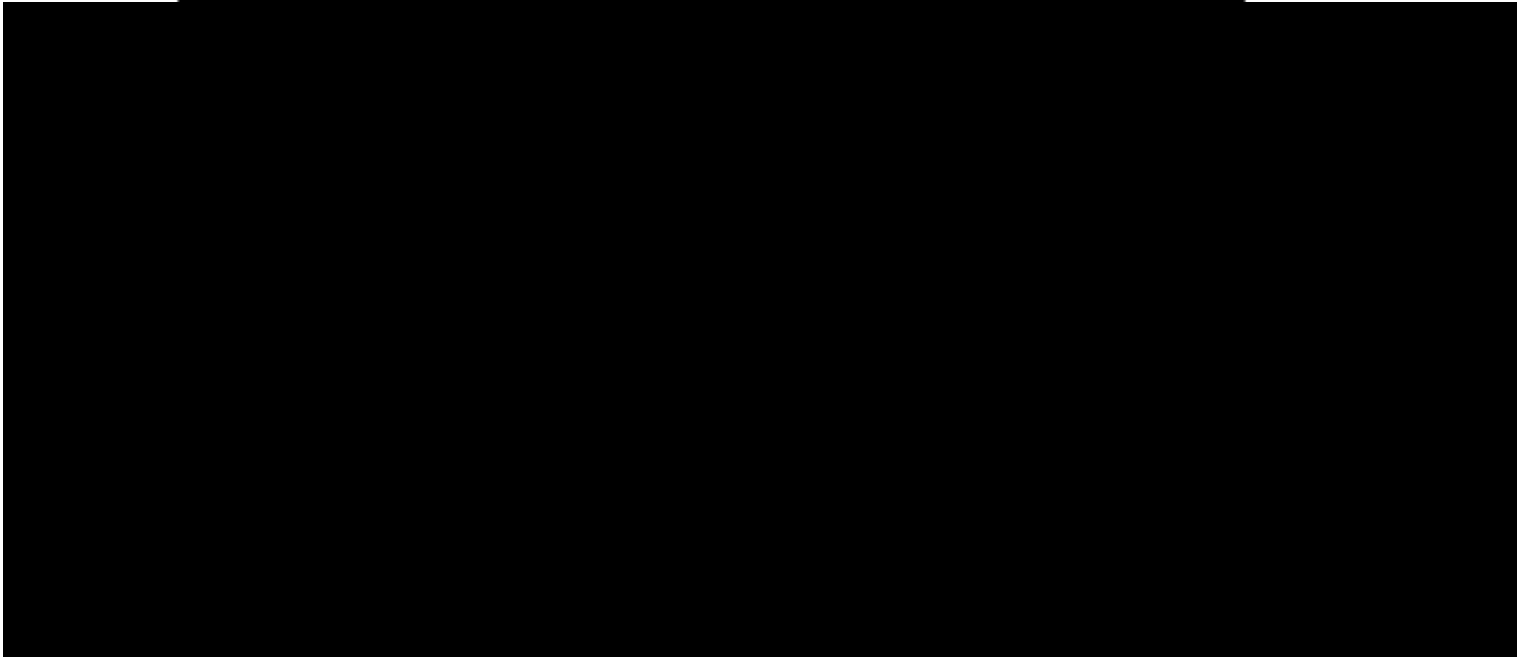


App Store Gross Billings



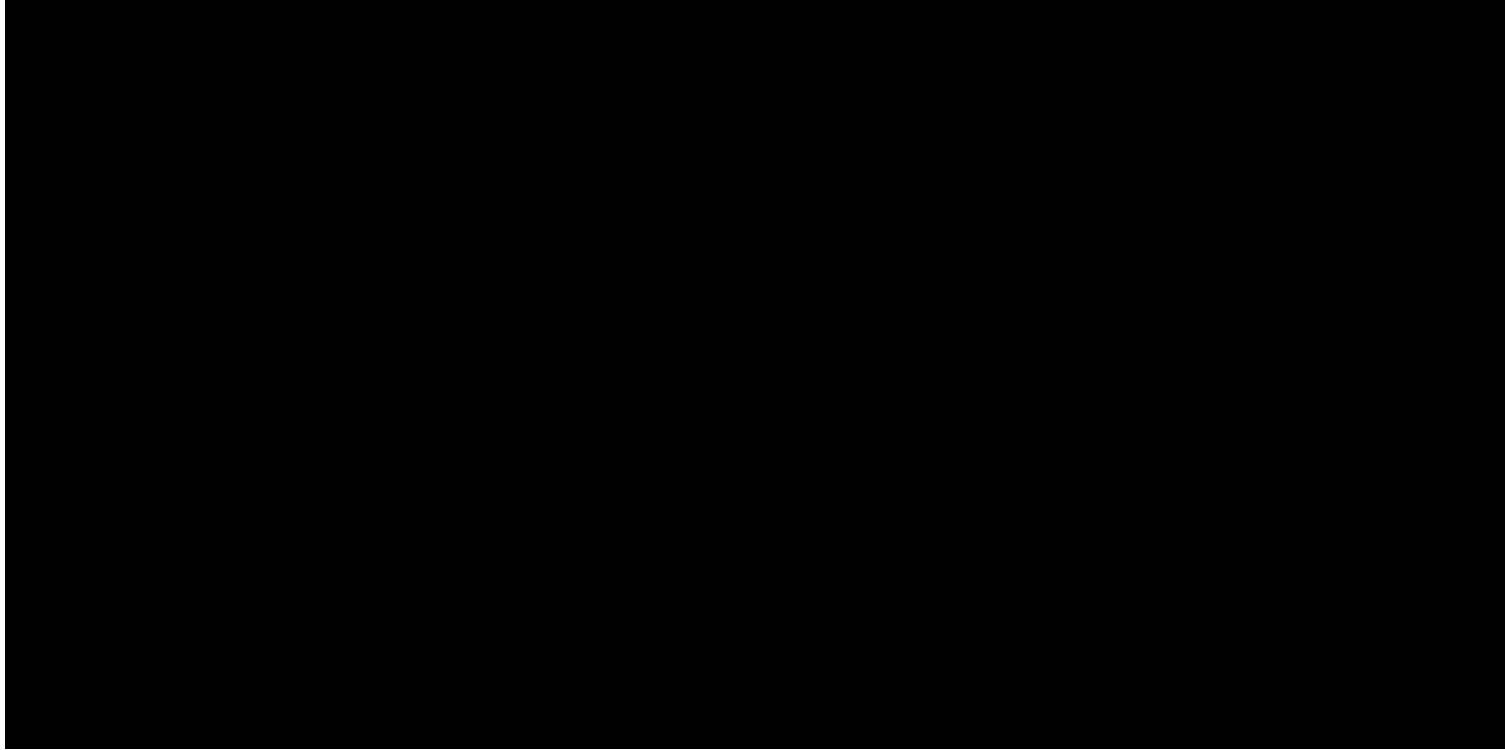
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3P Subscription Billings

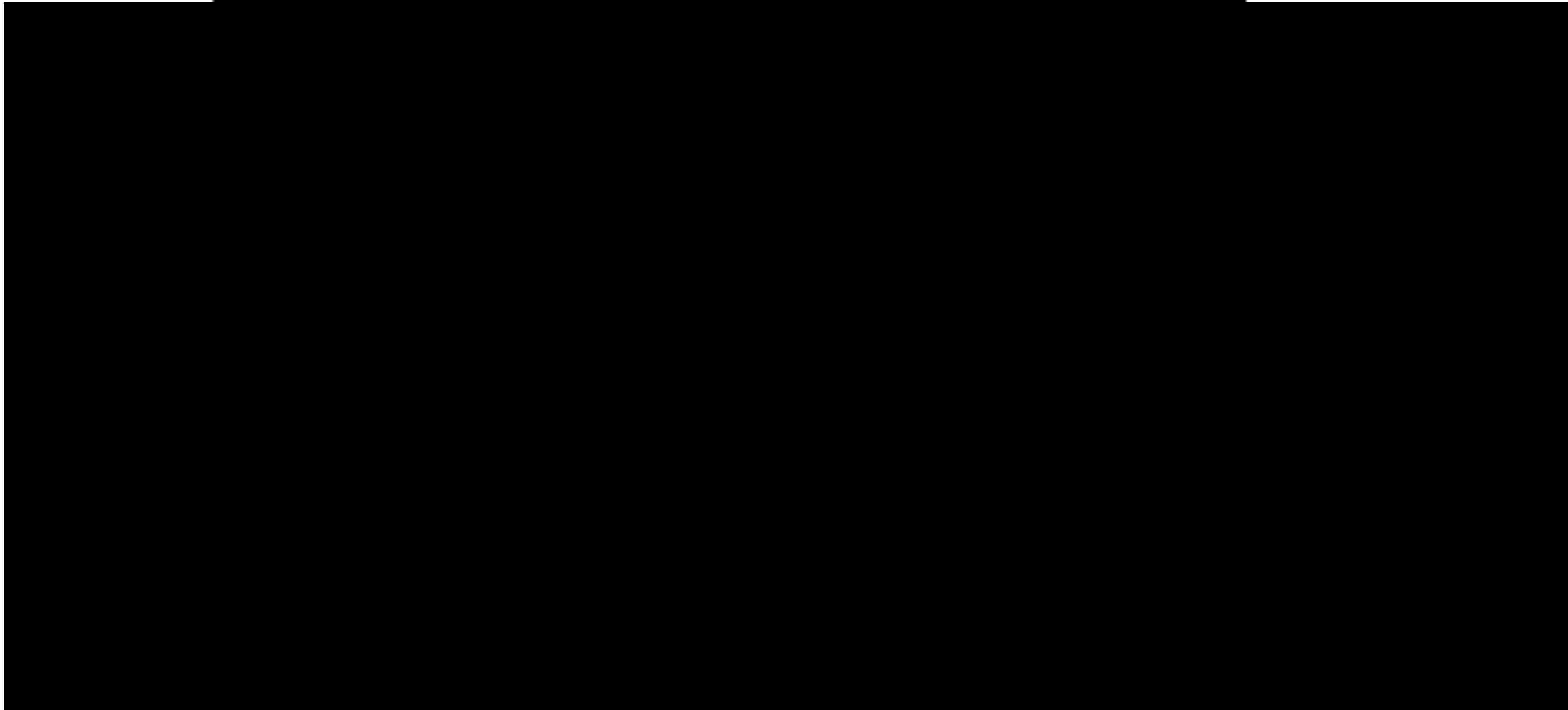


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3P Subscription Billings - Movies

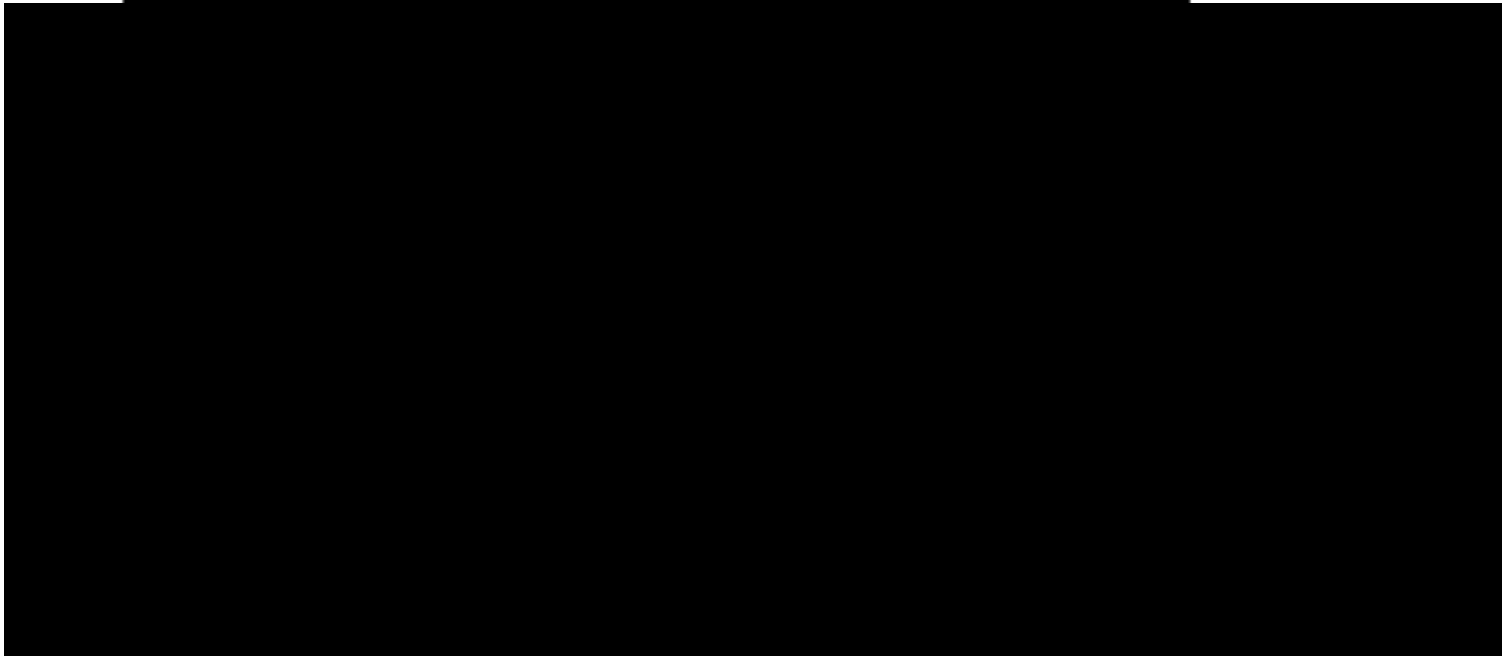


3P Subscription Billings- Music

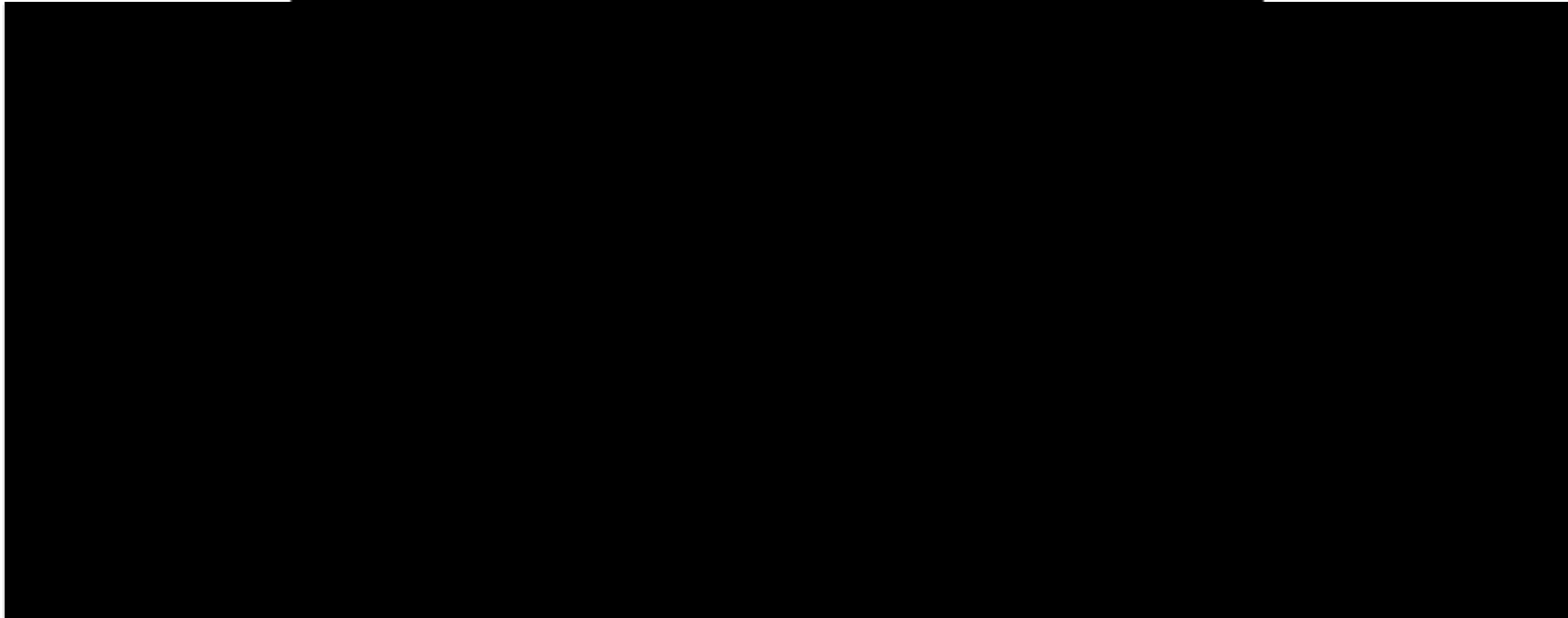


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3P Subscription Billings Bridge

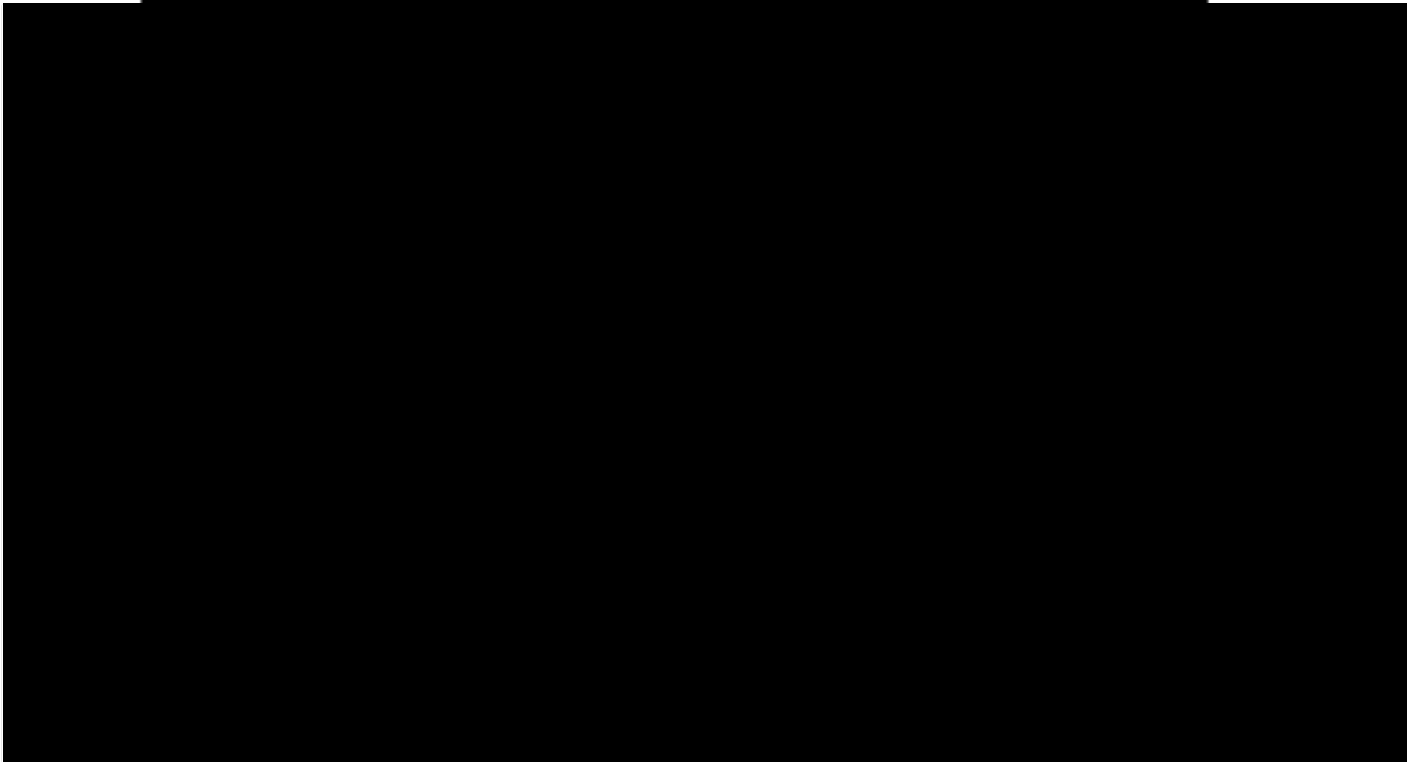


App Store Gross Revenue



PX-2176.223

App Store YoY



PX-2176.224

App Store Billings by Region

PX-2176.225

Headcount



Headcount Ask Cost

PX-2176.227

Headcount - TBH Detail

PX-2176.228

Headcount - FY'17 Ask

PX-2176.229

Headcount Ask - Including Infrastructure

PX-2176.230

P&L



PX-2176.231